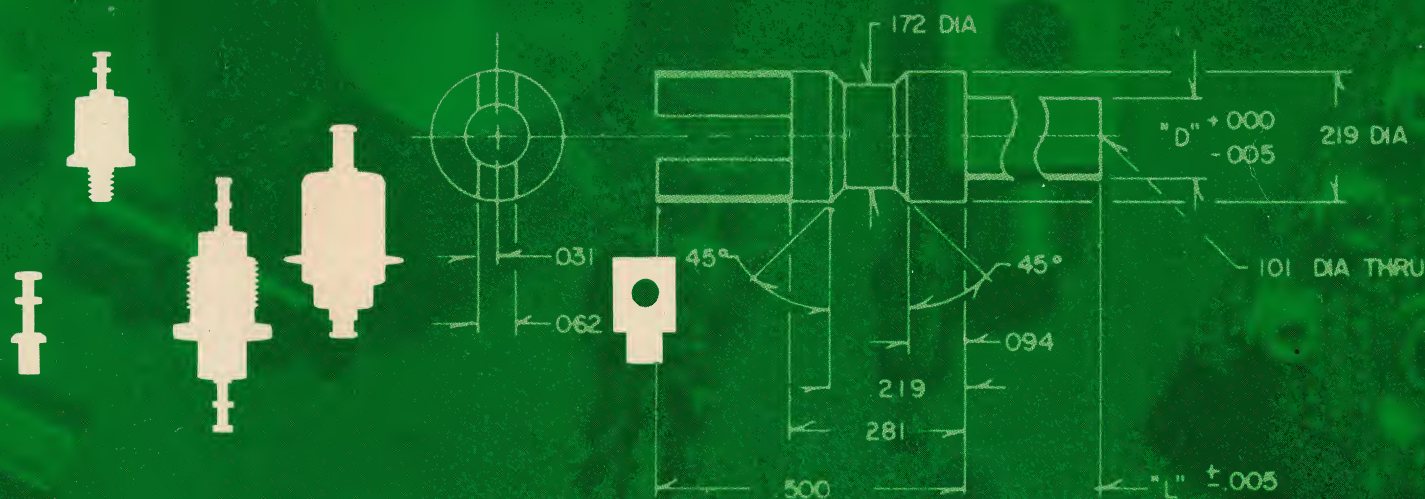


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1964 ENGINEERING STANDARDS MANUAL

electronic hardware • terminal boards • molded products

H-64



LITTON INDUSTRIES/U.S. ENGINEERING CO. DIV.

13536 Saticoy Street • Van Nuys, California

Printed in the U.S.A.

INTRODUCTION

Two decades of competitive enterprise have seen U. S. Engineering Co. (USECO) emerge as one of the nation's leading manufacturers of electronic hardware and associated products. This ranking position is built upon a solid base of integrated facility, skilled people, the finest modern equipment, and an enviable record of on-schedule delivery and immediate service to customers since the company's inception in 1943.



USECO'S diversified product line—designed, manufactured, and quality-controlled at this spacious, modern plant in Van Nuys, California—is the single-source supply of a long list of major American companies. Our techniques and products are kept at levels equal to or better than the state of the art; product lines are continually expanded, improved, or superseded by new USECO developments.

In the face of torrents of golden promises from hundreds of hardware producers, today's electronics designer or buyer is often concerned with the problem of selecting the best vendor. We believe that the vendor's past performance, current capabilities, speed of delivery, product reliability and quality, and similar *provable* factors form the best basis for choice.

Our long roster of customers affirms this.

MOST
COMPLETE
"SINGLE-SOURCE"
LINE OF ELECTRONIC
HARDWARE

USECO's business philosophy is to offer the fastest possible service in delivering any amounts of the fullest line of quality hardware available anywhere. All standard terminal lugs, insulated terminals, connectors, "Loc-Fit" terminals, instrument panel hardware (including color-matched aluminum knobs and handles), terminal boards, and many other related items—in any quantities—are ready for delivery on a short-term basis.

USECO assures the same rapid service on custom products, both on specially fabricated parts and on those which are kept stocked in successive stages of completion, ready for finishing, altering, and plating to individual specifications.

A brief investigation of USECO's varied product line can end a lot of hunting through large numbers of unrelated catalogs and can make engineering and purchasing procedures noticeably simpler and faster.



PRODUCT
IMPROVEMENT
AND NEW PRODUCT
DEVELOPMENT



Constant improvements, steady research, and far-seeing development of new products are obligatory if the needs of our dynamic electronics and aerospace programs are to be met with success. USECO's engineering group, in its research and development functions, consistently upgrades existing items while it continues adding new, improved products to the Company's diversified lines.

Among those developments which have advanced the state of the art in component mounting are USECO's molded terminal headers, Uni-Mold, Hi-Alumina, Printed Circuit and "Loc-Fit" terminals, and—most recently—these products: various new terminal lines meeting MIL specifications; encapsulation cups for extra-safe potting of miniature components; UNIJAK connectors for solderless, weldless lead connections; and weldable terminals which offer the most secure and safe method of mounting delicate components without risk of consequent rejection or malfunction.

ENGINEERING

Engineers at USECO, besides performing expertly in all conventional duties, follow a tradition of giving top-quality applications assistance to our many customers as well. Backed by long experience in designing and applying the many unique USECO proprietary products that have enjoyed constant success, our engineers offer this same design capability as an aid for our customers with special problems. Sales representatives at the regional offices will gladly discuss these services with those customers who request such special help.

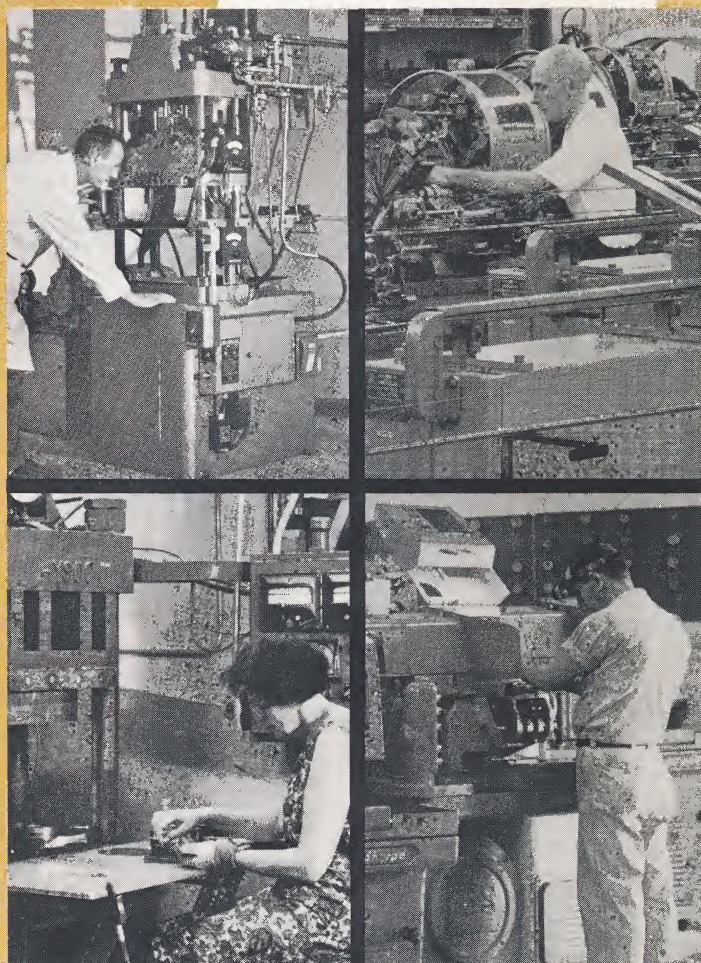
MACHINING AND MOLDING

One reason for USECO's tremendous standard inventory and guaranteed short-term delivery is that the Company—for its size—possesses one of the nation's largest and best-furnished machining and molding shops. Steadily run on a 24-hour daily basis (five or six days a week, as necessary), the shop literally produces millions of parts of electronic hardware weekly.

The machining group maintains a large number of automatic screw machines, both Swiss-type and Brown & Sharpe, and is capable of producing the entire scope of hardware used today. The Company's modern molding department is similarly equipped with the best up-to-date machines and can rapidly be set up to turn out custom, as well as standard parts.

Additionally, a full complement of secondary machines, plus a well-outfitted tool room, make the production of custom parts a matter of quick, accurate procedure. Every machine is maintained in near-mint condition and, as a quality control function, a planned program of equipment replacement is in effect at all times.

Shop personnel and supervisors are skilled and competent, most of the staff averaging well over six years of USECO experience at their respective crafts.

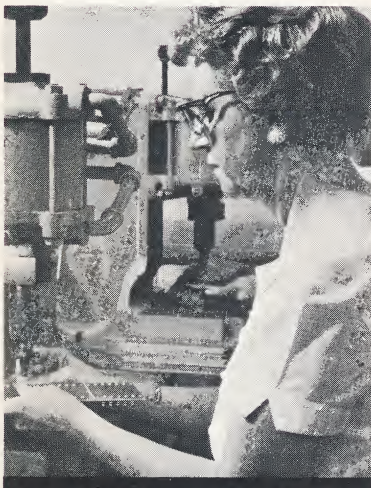


TERMINAL BOARDS

Long a key producer of a wide line of standard "off-the-shelf" terminal boards, U. S. Engineering Co. offers the design engineer broad latitude in base material, size, and terminal configuration in the design of his equipment. Standard boards are available from stock for prototype and production runs.

Where USECO standard boards are not adaptable to a particular application, custom boards can be designed and fabricated to specification within the Company's integrated facility. Skilled personnel and rigid in-process inspection assure the customer of a quality product with fast delivery.

Another related service to the terminal board customer: In our modern plant we are geared not only to fabricate any board to any specification but skilled assemblers are ready to "stuff" these boards to customer requirements. Component loading is just one extra service afforded to the USECO customer.



PLATING

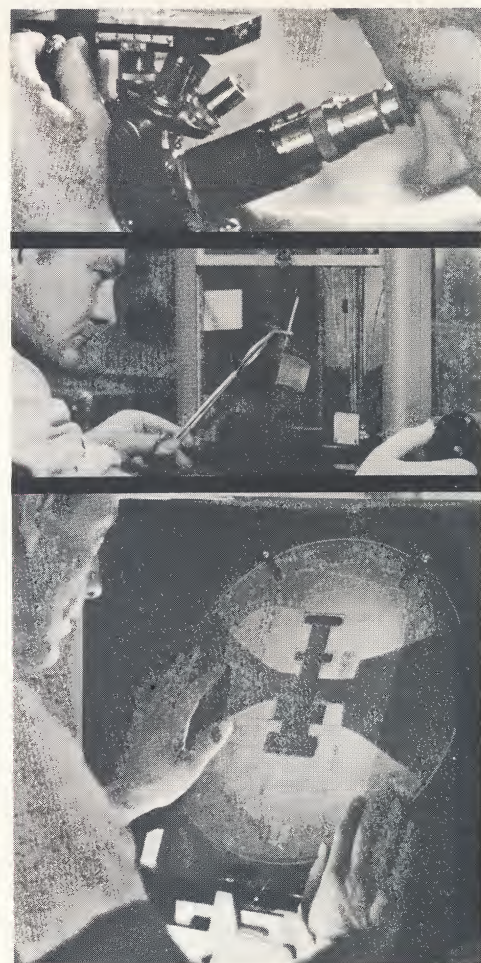
Fully approved by the U.S. Air Force, USECO's modern and thoroughly capable plating shop gives scrupulous attention to every job, large or small. The department is set up to handle any required plating technique, including tin, nickel, silver, and gold.

Top-grade, consistent operation is guaranteed by a tight quality control exercised in USECO's chemistry laboratory. This lab is maintained and supervised by a full-time chemist and a full-time quality control inspector, whose duties are combined to keep all equipment and products up to a specified standards. All plating meters are calibrated once a month, or oftener, and the chemist conducts scheduled analyses of plating baths, making additions to the baths as necessary. These procedures are witnessed, checked upon, and verified by the lab's QC representative.

As an absolute guarantee of proper product quality, the QC inspector takes samples from every lot, microsections them, and checks them under a 1000-power microscope for exact conformance to specified thicknesses and conditions.

QUALITY CONTROL

A wise manufacturer knows that *no* failure is a *little* failure and realizes that even the simplest parts now carry ever-more-critical responsibility. That is why USECO has always been a quality-minded company, historically placing product reliability and quality control in the category of "first order of business." Set up and supervised to comply strictly with MIL-Q-9858 requirements, USECO's stringent QC program has earned the approval of the military services and virtually all major buyers of electronic hardware. Every facet of USECO production stays under the watchful inspection of a continuous quality regulation. This is assured because, in addition to an ample supervisory staff, the QC department maintains one inspector for approximately every nine production line personnel. These inspectors have at their disposal the finest equipment to perform the mechanical, electrical and environmental tests required to maintain the high quality level which industry demands.



MATERIEL

USECO's manufacturing cycle begins and ends with the materiel department responsible for purchasing, inventory control, packaging and shipping. Through the purchasing group Materiel sees that the raw stock from which USECO hardware is manufactured is ordered and delivered on time so that production and delivery schedules are met. After manufacture and QC acceptance, inventory control assures that the parts are plated to customer specification and processed to the company's modern packaging area. Counted and packaged by automatic machines, all parts are sealed in vapor and gas barrier packages so that the customer receives them factory-fresh at all times. USECO is also geared to handle custom packaging for industrial or military accounts. The traffic department will then route the order via the most expeditious and economical carrier to assure on time delivery.



AND FOR MORE INFORMATION...

Please get in touch with us. Within the scope of a general catalog, a company can scarcely show its full capabilities for designing and producing. USECO sincerely invites you, therefore, to investigate the wide selection of products we offer from standard stock, including all common terminals meeting MIL specifications, our Top Hat line of component retainers, our plastic encapsulation cups, and a long list of other good products. Separate catalogs and information are yours for the asking. Remember also that USECO is completely organized to produce reliable custom parts in the shortest possible time. Either write to the Company directly or make contact with your nearest USECO representative if you have special problems or simply want more information. You will find that we are *really* at your service.



NATIONAL STOCKING AND REPRESENTATION

New problems in electronic hardware arise daily. But in most cases, USECO already has the answers on the shelves of its more than 75 authorized distributors in key electronic centers across the United States and Canada. These distributors maintain complete inventories in quantity assuring the customer rapid service and immediate delivery. If the standard part does not meet the specific need USECO offers the services of factory trained engineers—based in Van Nuys and San Francisco, California, Chicago, Illinois and in Englewood Cliffs, New Jersey—ready at your request to assist with special application problems and the need for custom parts. All such calls for help also get prompt attention from any of USECO's 20 representative offices strategically situated throughout the nation and in Canada.

Product Classification Index



Insulated Terminals SECTION

Encapsulation Cups, Molded Terminal Headers SECTION

"Loc-Fit[®]" Insulated Terminals and Connectors SECTION

Terminals, Standoffs, Feed-Thrus, Connectors,
Taper Pin Receptacles, Engineering Design Kits SECTION

Weldable Terminals, UNIJAK Connectors, Printed
Circuit Terminals, Solder Posts, Eyelets SECTION

Terminal Boards SECTION

Instrument Panel Hardware, Tooling SECTION

MIL-T-55155 Terminals

Insulated	Section A
Standard	Section D
Printed Circuit	Section E

See Following Page for Numerical Part Index

A

B

C

D

E

F

G



Numerical Index

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
11-2	77	1051	72	1401	14	1550	78	2761	48	4520	50
11-3	77	1052	72	1409	11	1551	78	2762	48	4521	50
11-4	77	1053	72	1410	14	1560	76	2764	48	4522	50
11-5	77	1054	73	1411	11	1561	76	2770	48	4523	50
100 Series	18	1055	73	1412	11	1580	76	2775	48	4524	50
200 Series	19	1060	72	1413	11	1590	76	2776	48	4525	51
300	74	1061	72	1414	11	1591	76	3100	77	4526	51
301	74	1062	72	1417	9	1600	12	3200	77	4527	51
302	74	1063	72	1418	9	1601	12	3316	77	4528	51
305	74	1064	72	1419	9	1602	12	4008	22	4529	51
306	74	1065	72	1421	9	1603	12	4010	22	4530	51
307	74	1066	72	1422	9	1604	12	4011	22	4531	52
310	74	1067	72	1423	9	1605	12	4013	23	4532	52
311	74	1068	72	1424	11	1612	10	4014	22	4550	15
312	74	1069	72	1425	13	1613	10	4033	24	4551	15
400	74	1070	70	1426	13	1614	10	4055	24	4552	15
401	74	1071	70	1427	13	1615	10	4056	23	4553	15
402	74	1072	70	1428	13	1616	10	4064	23	4554	15
410	74	1090	73	1429	13	1617	10	4067	24	4570	60
411	74	1091	73	1430	14	1700	45	4068	23	4571	60
412	74	1092	73	1431	5	1705	46	4074	22	4572	60
450	74	1093	73	1432	5	1710	45	4078	22	7000	58
500	74	1094	73	1433	14	1715	46	4098	24	7001	58
501	74	1095	73	1434	5	1716	46	4107	23	7010	58
502	74	1096	73	1435	14	1780	46	4109	23	7011	58
550	74	1097	73	1436	5	1781	46	4115	24	7020	58
551	74	1098	73	1440	3	1782	46	4151	23	7021	58
552	74	1100	62	1441	3	1785	45	4151R	23	7030	59
555	74	1102	63	1442	3	1786	45	4152	24	7031	59
556	74	1110	62	1445	3	1800	77	4152R	24	7040	59
557	74	DEL1110	62	1446	3	1815	77	4162	23	7041	59
560	74	1112	63	1447	3	2000	39	4163	22	7050	59
561	74	1180	68	1450	6	2001	39	4164	23	7051	59
562	74	1181	68	1451	6	2002	43	4165	24	7052	59
625	74	1182	68	1452	6	2003	39	4166	23	7200	54
626	74	1183	68	1455	6	2004	40	4167	23	7201	54
627	74	1184	68	1456	6	2005	40	4401	28	7210	55
900	70	1185	68	1457	6	2006	43	4402	26	7211	55
901	72	1200	36	1460	2	2010	37	4430	26	7220	55
903	73	1203	45	1461	2	2011	37	4435	26	7221	55
904	73	1210	34	1462	2	2020	40	4437	28	7600	60
1000	74	1220	41	1465	2	2021	40	4440	26	7601	60
1001	74	1230	41	1466	2	2022	40	4441	28	7602	60
1002	74	1240	37	1467	2	2023	44	4442	28	7603	60
1004	70	1250	38	1470	7	2024	44	4443	29	7604	60
1005	70	1255	38	1471	7	2030	35	4444	29	7650	60
1006	70	1260	36	1472	7	2031	44	4445	29	7651	60
1007	70	1280	34	1475	7	2035	35	4446	27	7652	60
1010	70	1281	34	1476	7	2040	42	4447	30	7653	60
1011	70	1282	34	1477	7	2050	42	4448	30	7654	60
1012	70	1290	42	1480	4	2060	35	4449	30	7701	56
1013	70	1299	34	1481	4	2061	44	4450	30	7702	56
1015	70	1300	34	1482	4	2062	36	4451	31	7705	56
1016	70	1301	41	1483	5	2063	44	4460	27	7706	56
1017	70	1304	38	1484	5	2064	44	4470	27	7708	56
1018	70	1305	38	1485	4	2065	45	4471	28	7709	56
1019	70	1306	38	1486	4	2200	64	4472	28	7710	57
1020	71	1308	38	1487	4	2202	65	4473	29	7711	57
1021	72	1309	39	1490	8	2210	64	4474	29	7712	57
1026	71	1310	39	1491	8	2212	65	4475	29	7713	57
1027	71	1311	40	1492	8	2500	42	4476	27	7714	57
1028	71	1315	41	1495	8	2501	42	4480	31	7715	57
1029	71	1316	41	1496	8	2502	43	4482	31	8001	66/67
1030	71	1320	41	1497	8	2509	43	4483	31	8002	66/67
1031	71	1330	36	1510	75	2510	43	4484	32	8003	66/67
1032	71	1340	35	1511	75	2520	36	4485	32	8004	66/67
1033	71	1350	35	1512	75	2530	43	4487	32	NAS704	49
1034	71	1360	42	1513	75	2540	36	4489	32	NAS705	49
1035	71	1370	35	1514	76	2710	47	4500	16	NAS706	49
1036	71	1380	37	1515	75	2720	47	4501	16	NAS707	49
1038	74	1390	37	1520	75	2730	47	4502	16	NAS708	49
1039	74	1391	39	1530	78	2740	47	4503	16	NAS709	49
1040	74	1392	37	1531	78	2750	47	4504	16		
1050	72	1400	14	1532	78	2760	47	4505	16		

DECIMAL EQUIVALENT CHART .. 79
ENGINEERING DESIGN KITS 52
MIL-T-55155 TERMINALS 82

MS CROSS REFERENCE 83
PLATING SPECIFICATIONS 84
SWAGING HINTS 80

TOOLING 81
WELD SCHEDULE 54

NOTE: DRAWINGS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**NEW INSULATED MIL-T-55155
TERMINALS ON PAGES 15 & 16**

SECTION A

INSULATED TERMINALS

USECO insulated terminals and feedthrus including the newly offered MIL-T-55155 terminals, represent the broadest single line in the industry. Three basic sizes, standard, miniature, and subminiature are stocked in a wide variety of terminal and base configurations and insulating materials.

SPECIFICATIONS (Except for MIL-T-55155 Terminals)

Terminals	Choice of turret or bifurcated designs.
Material:	Brass, 1/2 hard, composition 22 per QQ-B-626
Finish:	Standard -9 (0.00015 Gold over 0.0003 silver)
Bases	Choice of swage type, stud or female threads.
Material:	Brass, 1/2 hard, composition 22 per QQ-B-626
Finish:	Standard -11 (0.0003 Cadmium)

Insulating Materials

TEFLON Per MIL-M-14077—Recommended for temperatures up to 500°F. Excellent electrical, environmental, mechanical and chemical characteristics.

HI ALUMINA Per MIL-I-10A L624—Recommended for temperatures in excess of 600°F. Commonly used in radio frequency applications. Excellent electrical, environmental, mechanical and chemical characteristics.

ALKYD Per MIL-M-14F, TYPE MAG.—Recommended for temperatures up to 325°F. Good electrical and chemical characteristics. Fair mechanical characteristics.

PHENOLIC Per MIL-M-14F, TYPE C.F.G.—Recommended for temperatures up to 240°F. Fair electrical, environmental, mechanical and chemical characteristics.

DIALLYL PHTHALATE Per MIL-M-19833, TYPE GDI 30F recommended for temperatures up to 360°F. Very good electrical, environmental, mechanical and chemical characteristics.

HOW TO ORDER: Standard items should be ordered by the part number. When applicable, be sure to include the letter designation which indicates the thread and/or shank length. It is not necessary to indicate dash numbers for standard plating of USECO insulated terminals. Other platings available on special order.

Example: 1480-A

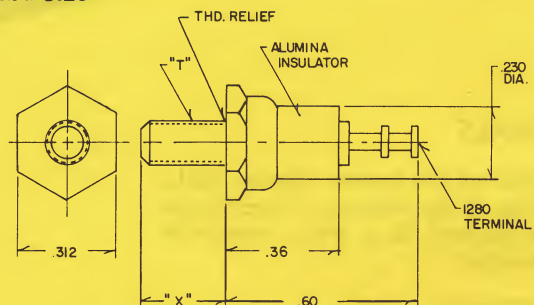
Series 1480, Mounting variation A

Custom Terminals and Platings on Special Order

Complete Plating Specifications Listed on Page 84

Hi-Alumina

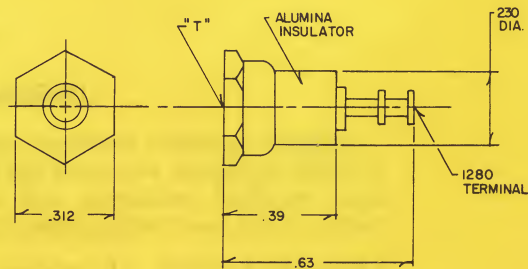
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1460 A	3/16	6-32	1460 E	3/16	4-40
1460 B	1/4	6-32	1460 F	1/4	4-40
1460 C	5/16	6-32	1460 G	5/16	4-40
1460 D	3/8	6-32	1460 H	3/8	4-40

Part No. 1460

Standard Size

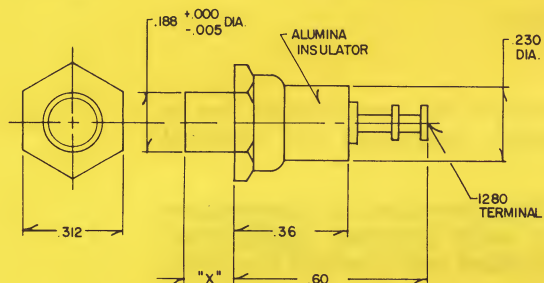


PART NO.	"T"
1461	6-32
1461 A	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1461

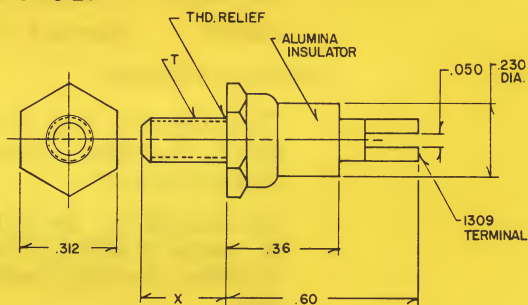
Standard Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1462 A	.054	.031	1462 C	.125	.094
1462 B	.094	.062	1462 D	.156	.125

Part No. 1462

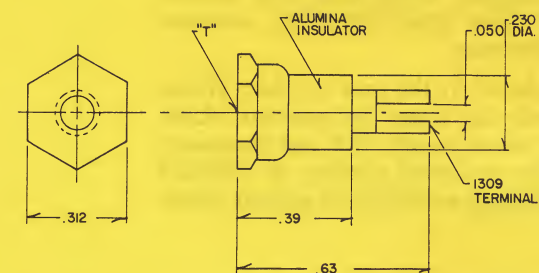
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1465 A	3/16	6-32	1465 E	3/16	4-40
1465 B	1/4	6-32	1465 F	1/4	4-40
1465 C	5/16	6-32	1465 G	5/16	4-40
1465 D	3/8	6-32	1465 H	3/8	4-40

Part No. 1465

Standard Size

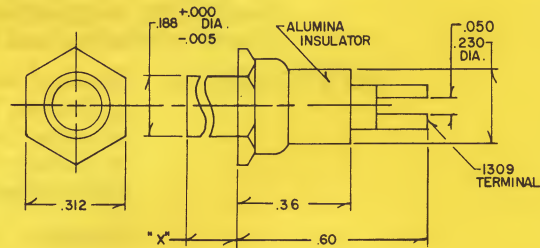


PART NO.	"T"
1466	6-32
1466 A	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1466

Standard Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1467 A	.054	.031	1467 C	.125	.094
1467 B	.094	.062	1467 D	.156	.125

Part No. 1467

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

VOLTAGE BREAKDOWN: 5000 VOLTS A.C.

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

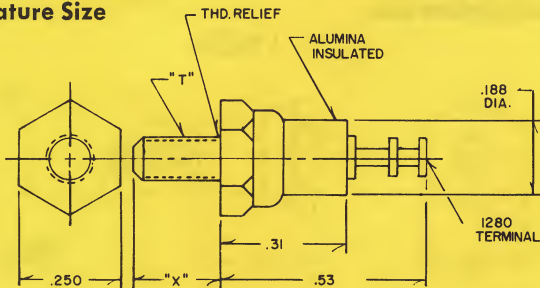
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Insulated Terminals



Hi-Alumina

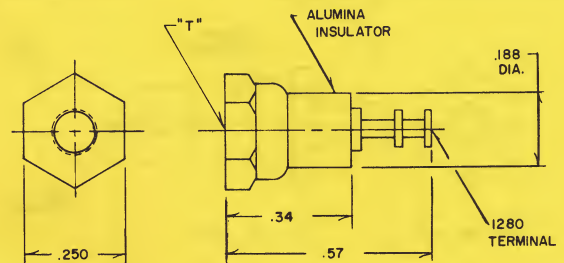
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1440 A	.188	6-32	1440 E	.188	4-40
1440 B	.250	6-32	1440 F	.250	4-40
1440 C	.312	6-32	1440 G	.312	4-40
1440 D	.375	6-32	1440 H	.375	4-40

Part No. 1440

Miniature Size

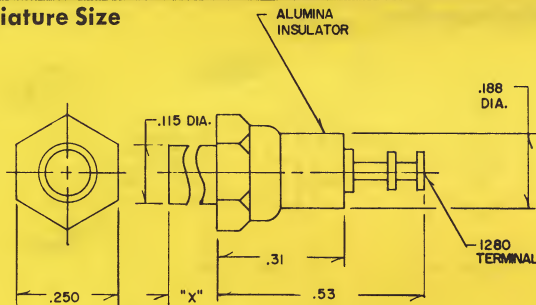


PART NO.	"T"	PART NO.	"T"
1441 A	2-56	1441 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1441

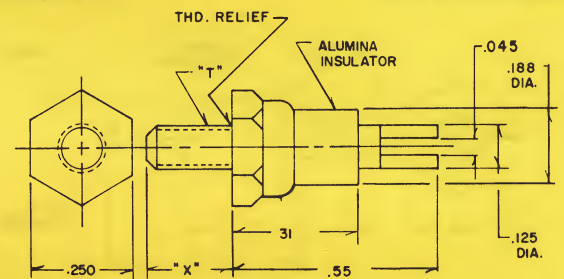
Miniature Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1442 A	.075	.031	1442 C	.135	.094
1442 B	.105	.062	1442 D	.165	.125

Part No. 1442

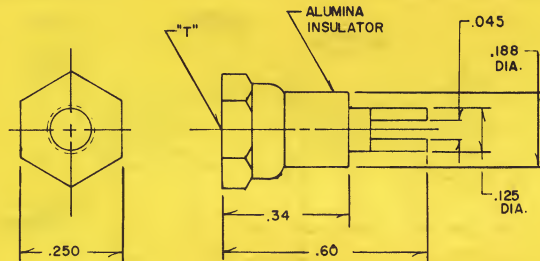
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1445 A	.188	6-32	1445 E	.188	4-40
1445 B	.250	6-32	1445 F	.250	4-40
1445 C	.312	6-32	1445 G	.312	4-40
1445 D	.375	6-32	1445 H	.375	4-40

Part No. 1445

Miniature Size

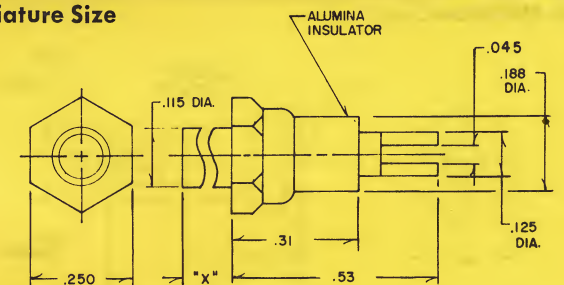


PART NO.	"T"	PART NO.	"T"
1446 A	2-56	1446 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1446

Miniature Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1447 A	.075	.031	1447 C	.135	.094
1447 B	.105	.062	1447 D	.165	.125

Part No. 1447

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

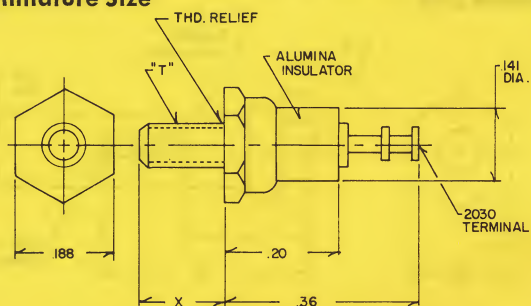
VOLTAGE BREAKDOWN; 4000 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Hi-Alumina

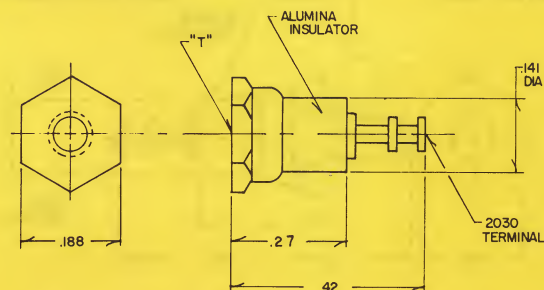
Sub-Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1480 A	1/8	2-56	1480 C	1/8	4-40
1480 B	7/32	2-56	1480 D	7/32	4-40

Part No. 1480

Sub-Miniature Size

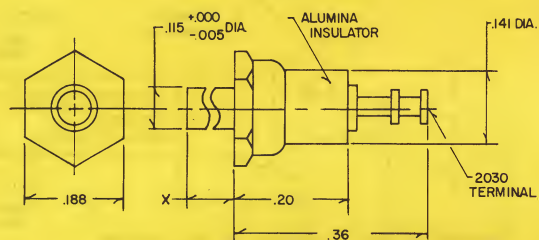


PART NO.	"T"
1481 A	4-40
1481 B	2-56

THREAD DEPTH, 3 THREADS MIN.

Part No. 1481

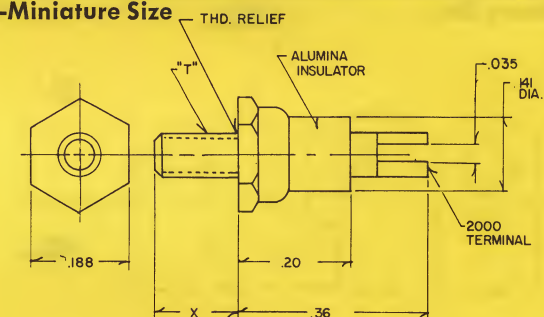
Sub-Miniature Size



PART NO.	X	BD THICK	PART NO.	X	BD THICK
1482 A	.054	.031	1482 C	.125	.094
1482 B	.094	.062	1482 D	.156	.125

Part No. 1482

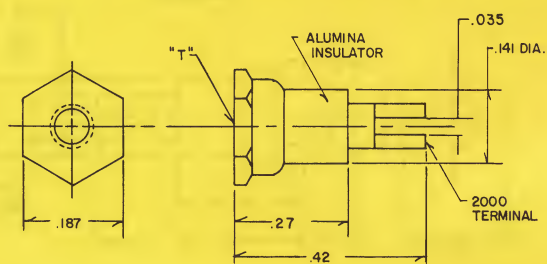
Sub-Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1485 A	1/8	2-56	1485 C	1/8	4-40
1485 B	7/32	2-56	1485 D	7/32	4-40

Part No. 1485

Sub-Miniature Size

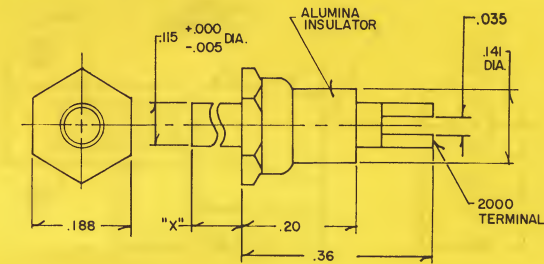


PART NO.	"T"	PART NO.	"T"
1486 A	4-40	1486 B	2-56

THREAD DEPTH, 3 THREADS MIN.

Part No. 1486

Sub-Miniature Size



PART NO.	"X"	BD THICK	PART NO.	"X"	BD THICK
1487 A	.054	.031	1487 C	.125	.094
1487 B	.094	.062	1487 D	.156	.125

Part No. 1487

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL —9, BASE —11

VOLTAGE BREAKDOWN; 1500 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

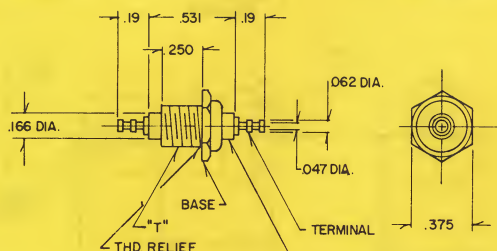
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Insulated Terminals



Hi-Alumina

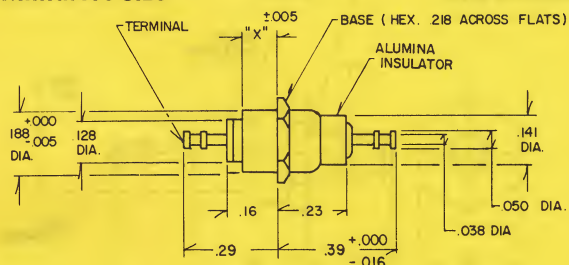
Miniature Size



PART NO. "T" 1483 1/4-28
VOLTAGE BREAKDOWN; 2500 VOLTS A.C.
FOR USE WITH .188 (MAX) THICK MTG. BOARD
MOUNTING HARDWARE FURNISHED WITH UNIT
RESISTANCE (TERMINAL TO BASE), 10^{12} OHMS.

Part No. 1483

Sub-Miniature Size

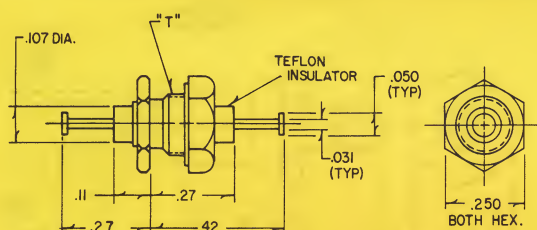


PART NO. "X" BD. THICK. 1484 B .105 .062
VOLTAGE BREAKDOWN, 1500 VOLTS A.C.
MTG. HOLE DIA. .191-.001
RESISTANCE (TERMINAL TO BASE), 10^{12} OHMS.

Part No. 1484

Teflon

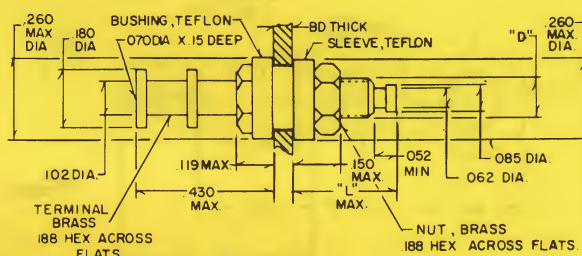
Sub-Miniature Size



PART NO. "T" "INSUL." 1431 10-32 TEFLON
VOLTAGE BREAKDOWN, 2500 VOLTS A.C.
RESISTANCE (TERMINAL TO BASE); $2(10^{11})$ OHMS
FOR USE WITH .094 (MAX) THICK MTG. BOARD

Part No. 1431

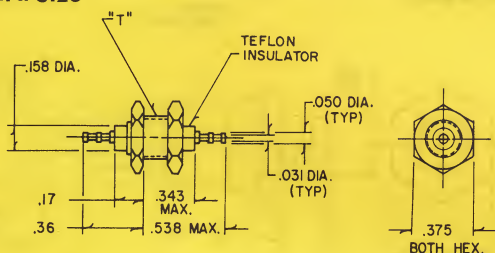
Miniature Size



PART NO. "D" "L" BD. THICK MTG. DIA. 1432 5-40 .348 .062 .195 +.000
THD. - .004
VOLTAGE BREAKDOWN; 1500 VOLTS A.C.
RESISTANCE (TERMINAL TO BASE); 10^{12} OHMS.

Part No. 1432

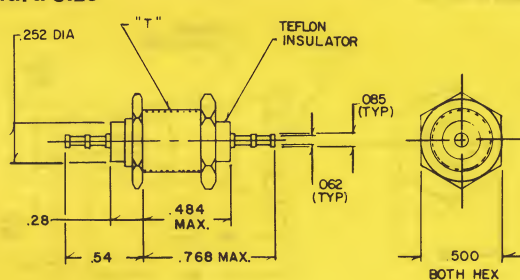
Standard Size



PART NO. "T" "INSUL." 1434 1/4-28 TEFLON
VOLTAGE BREAKDOWN; 4000 VOLTS A.C.
FOR USE WITH .188 (MAX) THICK MTG. BOARD
RESISTANCE (TERMINAL TO BASE) (10^{12}) OHMS

Part No. 1434

Standard Size



PART NO. "T" "INSUL." 1436 3/8-32 TEFLON
VOLTAGE BREAKDOWN, 6000 VOLTS A.C.
FOR USE WITH .250 (MAX) THICK MTG. BOARD
RESISTANCE (TERMINAL TO BASE) (10^{12}) OHMS.

Part No. 1436

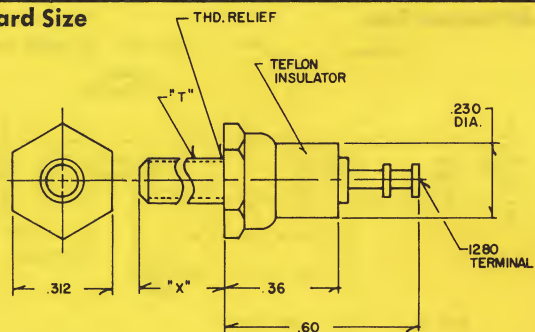
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

TOLERANCE; .XXX $\pm$.010, .XX $\pm$.016 BEFORE PLATING.

Teflon

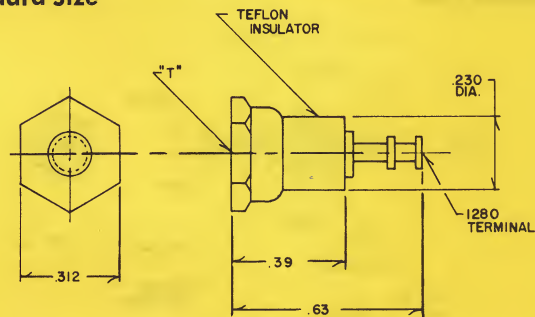
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1450 A	3/16	6-32	1450 E	3/16	4-40
1450 B	1/4	6-32	1450 F	1/4	4-40
1450 C	5/16	6-32	1450 G	5/16	4-40
1450 D	3/8	6-32	1450 H	3/8	4-40

Part No. 1450

Standard Size

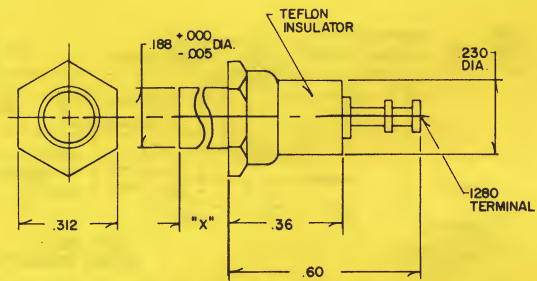


PART NO.	"T"	PART NO.	"T"
1451	6-32	1451 A	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1451

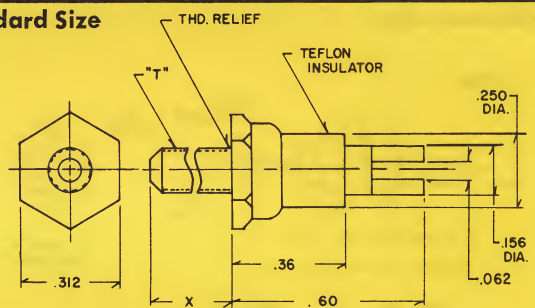
Standard Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1452 A	.054	.031	1452 C	.125	.094
1452 B	.094	.062	1452 D	.156	.125

Part No. 1452

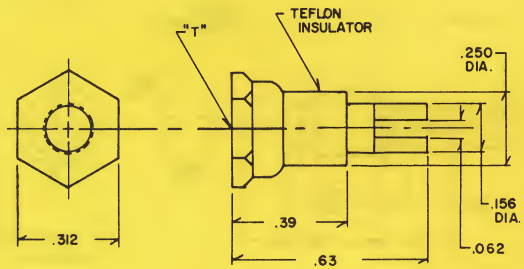
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1455 A	3/16	6-32	1455 E	3/16	4-40
1455 B	1/4	6-32	1455 F	1/4	4-40
1455 C	5/16	6-32	1455 G	5/16	4-40
1455 D	3/8	6-32	1455 H	3/8	4-40

Part No. 1455

Standard Size

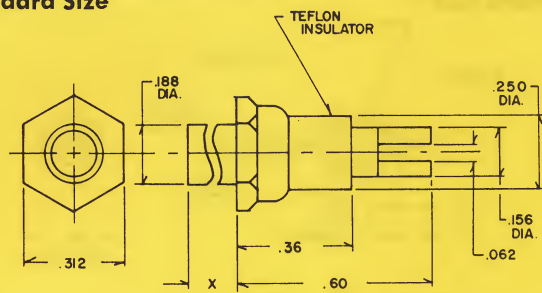


PART NO.	"T"	PART NO.	"T"
1456	6-32	1456 A	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1456

Standard Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1457 A	.054	.031	1457 C	.125	.094
1457 B	.094	.062	1457 D	.156	.125

Part No. 1457

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

VOLTAGE BREAKDOWN; 6000 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

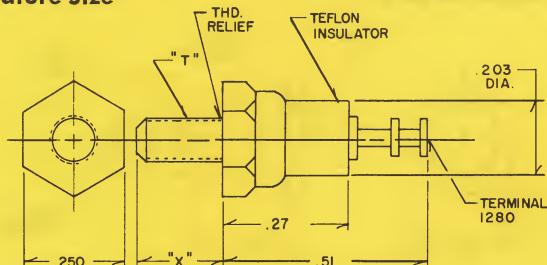
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Insulated Terminals

USECO

Teflon

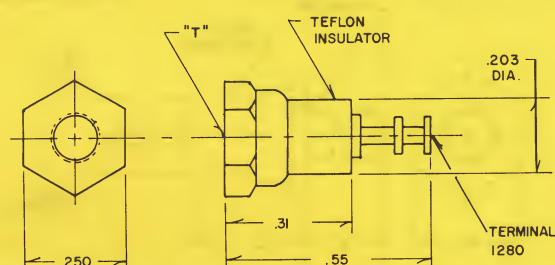
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1470 A	.188	6-32	1470 E	.188	4-40
1470 B	.250	6-32	1470 F	.250	4-40
1470 C	.312	6-32	1470 G	.312	4-40
1470 D	.375	6-32	1470 H	.375	4-40

Part No. 1470

Miniature Size

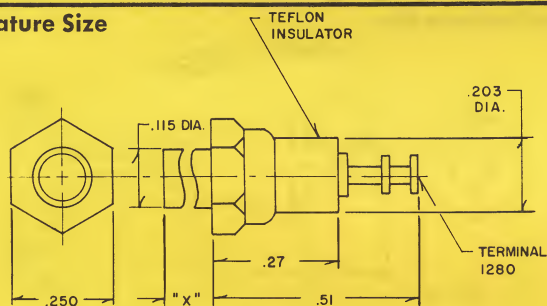


PART NO.	"T"	PART NO.	"T"
1471 A	2-56	1471 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1471

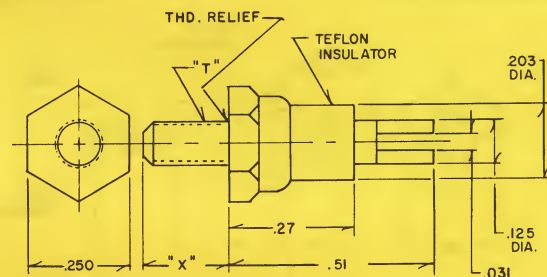
Miniature Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1472 A	.075	.031	1472 C	.135	.094
1472 B	.105	.062	1472 D	.165	.125

Part No. 1472

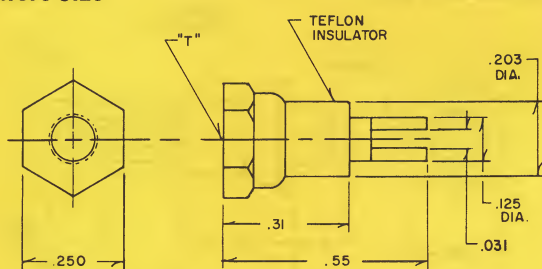
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1475 A	.188	6-32	1475 E	.188	4-40
1475 B	.250	6-32	1475 F	.250	4-40
1475 C	.312	6-32	1475 G	.312	4-40
1475 D	.375	6-32	1475 H	.375	4-40

Part No. 1475

Miniature Size

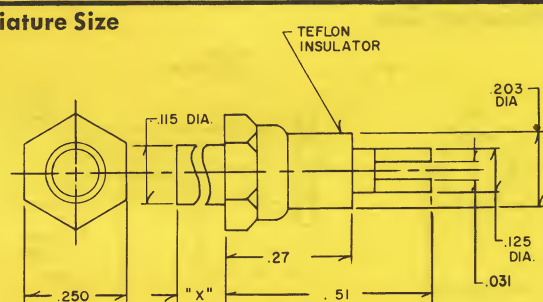


PART NO.	"T"	PART NO.	"T"
1476 A	2-56	1476 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1476

Miniature Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1477 A	.075	.031	1477 C	.135	.094
1477 B	.105	.062	1477 D	.165	.125

Part No. 1477

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

VOLTAGE BREAKDOWN; 4000 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

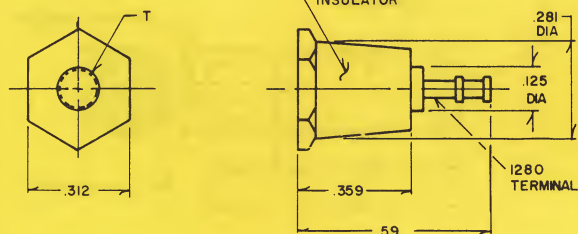
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Insulated Terminals



Alkyd

Standard Size

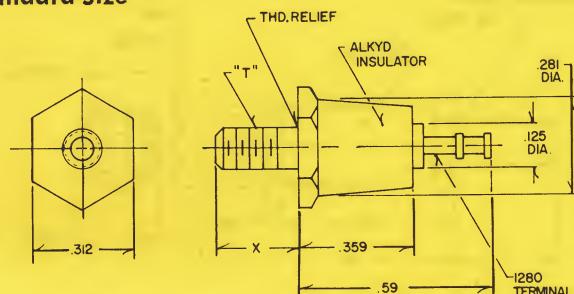


PART NO.	T.	PART NO.	T.
1417	6-32	1417A	4-40

VOLTAGE BREAKDOWN, 6000 VOLTS A.C.
THREAD DEPTH, 3 THREADS MIN.

Part No. 1417

Standard Size

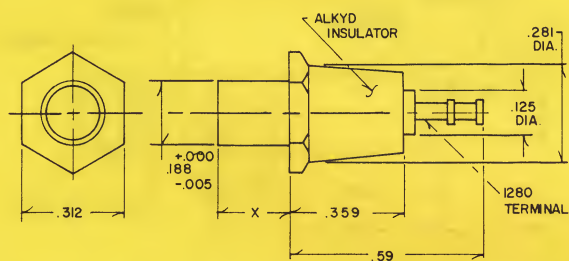


PART NO.	"X"	"T"	PART NO.	"X"	"T"
1418 A	3/16	6-32	1418 E	3/16	4-40
1418 B	1/4	6-32	1418 F	1/4	4-40
1418 C	5/16	6-32	1418 G	5/16	4-40
1418 D	3/8	6-32	1418 H	3/8	4-40

VOLTAGE BREAKDOWN, 6000 VOLTS A.C.

Part No. 1418

Standard Size

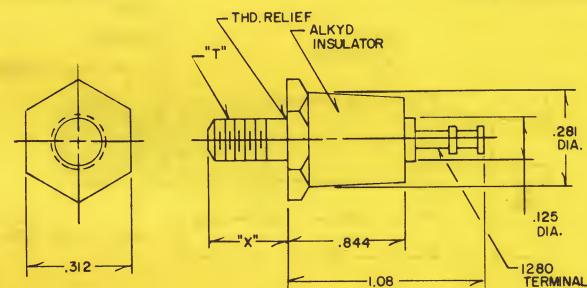


PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1419 A	.054	.031	1419 C	.125	.094
1419 B	.094	.062	1419 D	.156	.125

VOLTAGE BREAKDOWN, 6000 VOLTS A.C.

Part No. 1419

Standard Size

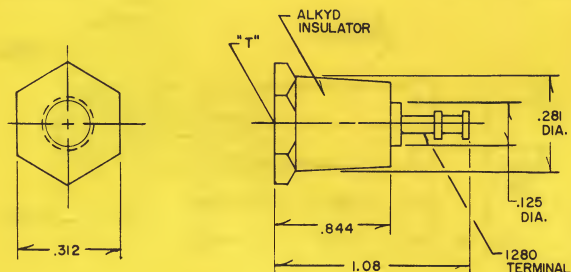


PART NO.	"X"	"T"
1421	.250	6-32

VOLTAGE BREAKDOWN, 10,000 VOLTS A.C.

Part No. 1421

Standard Size

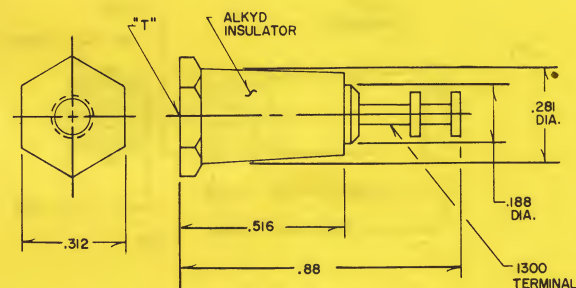


PART NO.	"T"
1422	6-32

VOLTAGE BREAKDOWN, 11,000 VOLTS A.C.
THREAD DEPTH, 3 THREADS MIN.

Part No. 1422

Standard Size



PART NO.	"T"
1423	6-32

VOLTAGE BREAKDOWN, 9,000 VOLTS A.C.
THREAD DEPTH, 3 THREADS MIN.

Part No. 1423

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

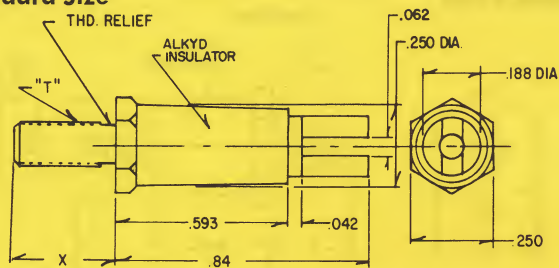
PLATING: TERMINAL -9, BASE -11

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

TOLERANCE: .XXX ± .010, .XX ± .016 BEFORE PLATING.

Alkyd

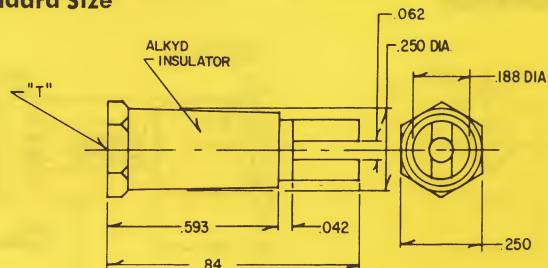
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1612 A	3/16	6-32	1612 E	3/16	4-40
1612 B	1/4	6-32	1612 F	1/4	4-40
1612 C	5/16	6-32	1612 G	5/16	4-40
1612 D	3/8	6-32	1612 H	3/8	4-40

Part No. 1612

Standard Size

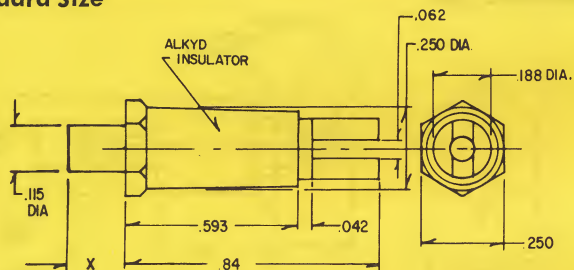


PART NO.	"T"	PART NO.	"T"
1613 A	6-32	1613 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1613

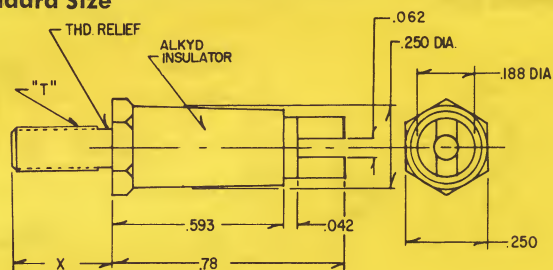
Standard Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1614 A	.075	.031	1614 C	.135	.094
1614 B	.105	.062	1614 D	.165	.125

Part No. 1614

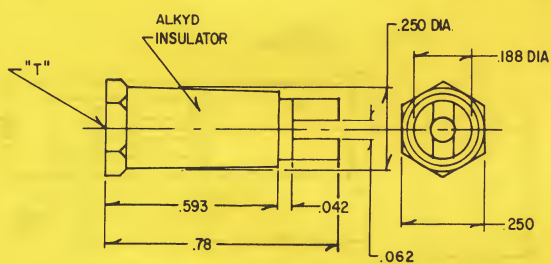
Standard Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1615 A	3/16	6-32	1615 E	3/16	4-40
1615 B	1/4	6-32	1615 F	1/4	4-40
1615 C	5/16	6-32	1615 G	5/16	4-40
1615 D	3/8	6-32	1615 H	3/8	4-40

Part No. 1615

Standard Size

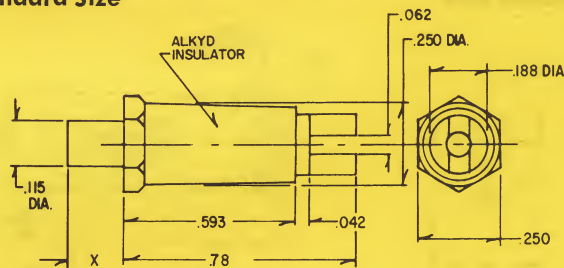


PART NO.	"T"	PART NO.	"T"
1616 A	6-32	1616 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1616

Standard Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1617 A	.075	.031	1617 C	.135	.094
1617 B	.105	.062	1617 D	.165	.125

Part No. 1617

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

VOLTAGE BREAKDOWN; 14000 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

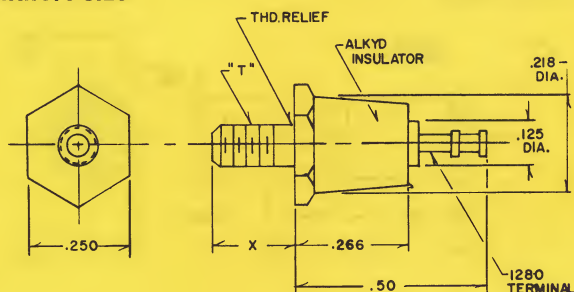
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Insulated Terminals



Alkyd

Miniature Size

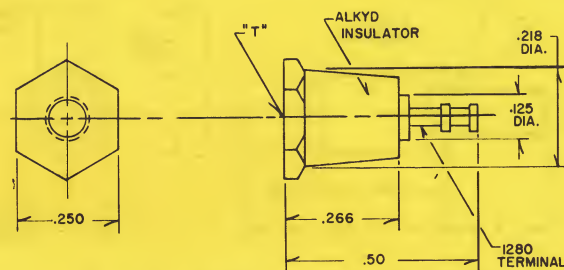


PART NO.	"X"	"T"	PART NO.	"X"	"T"
1409 A	3/16	6-32	1409 E	3/16	4-40
1409 B	1/4	6-32	1409 F	1/4	4-40
1409 C	5/16	6-32	1409 G	5/16	4-40
1409 D	3/8	6-32	1409 H	3/8	4-40

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.

Part No. 1409

Miniature Size



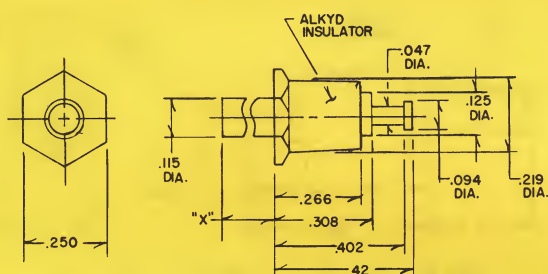
THREAD DEPTH, 3 THREADS MIN.

PART NO.	"T"	PART NO.	"T"
1411 A	6-32	1411 B	4-40

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.

Part No. 1411

Miniature Size

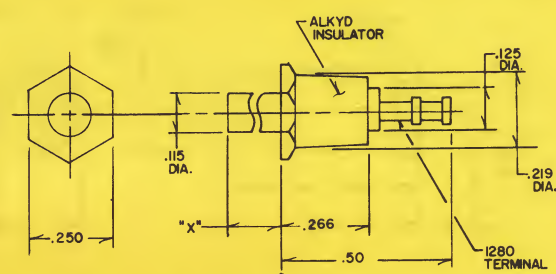


PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1412 A	.075	.031	1412 C	.135	.094
1412 B	.105	.062	1412 D	.165	.125

VOLTAGE BREAKDOWN; 5000 VOLTS A.C.

Part No. 1412

Miniature Size

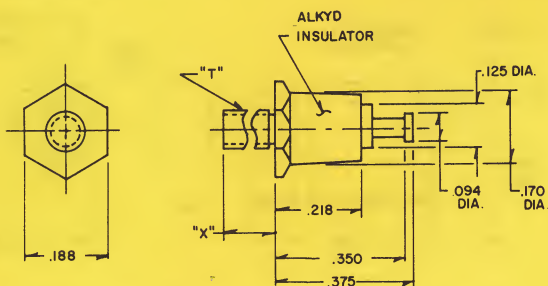


PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1413 A	.075	.031	1413 C	.135	.094
1413 B	.105	.062	1413 D	.165	.125

VOLTAGE BREAKDOWN; 5000 VOLTS A.C.

Part No. 1413

Miniature Size

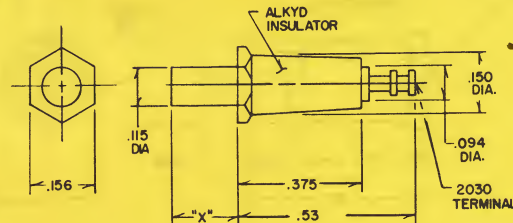


PART NO.	"X"	"T"
1414 A	.080	3-48

VOLTAGE BREAKDOWN; 4000 VOLTS A.C.

Part No. 1414

Miniature Size



PART NO.	"X"	BD. THICK	PART NO.	"X"	BD. THICK
1424 B	.105	.062	1424 C	.135	.094
			1424 D	.165	.125

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.

Part No. 1424

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

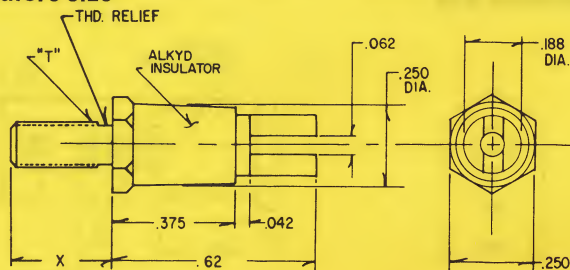
PLATING: TERMINAL -9, BASE -11

RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS

TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Alkyd

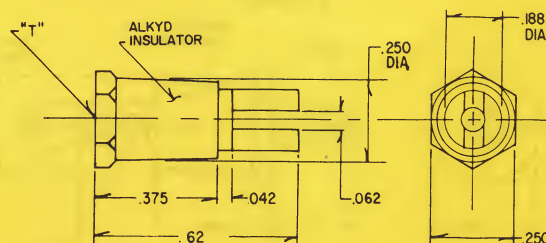
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1600 A	3/16	6-32	1600 E	3/16	4-40
1600 B	1/4	6-32	1600 F	1/4	4-40
1600 C	5/16	6-32	1600 G	5/16	4-40
1600 D	3/8	6-32	1600 H	3/8	4-40

Part No. 1600

Miniature Size

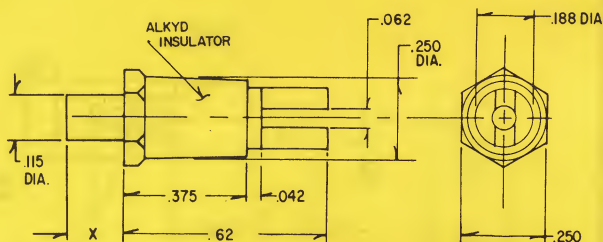


PART NO.	"T"	PART NO.	"T"
1601 A	6-32	1601 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1601

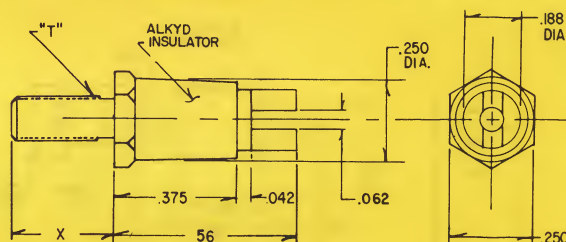
Miniature Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1602 A	.075	.031	1602 C	.135	.094
1602 B	.105	.062	1602 D	.165	.125

Part No. 1602

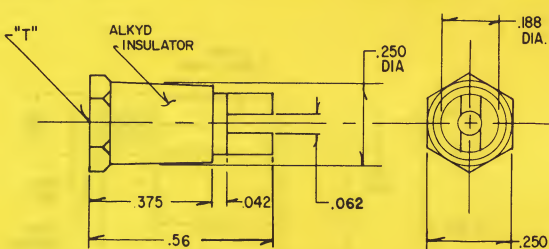
Miniature Size



PART NO.	"X"	"T"	PART NO.	"X"	"T"
1603 A	3/16	6-32	1603 E	3/16	4-40
1603 B	1/4	6-32	1603 F	1/4	4-40
1603 C	5/16	6-32	1603 G	5/16	4-40
1603 D	3/8	6-32	1603 H	3/8	4-40

Part No. 1603

Miniature Size

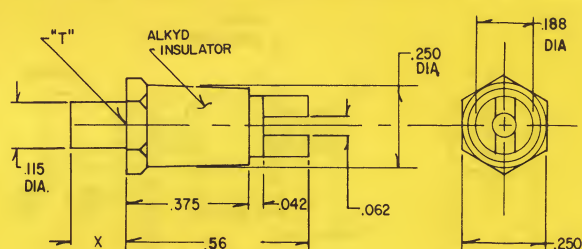


PART NO.	"T"	PART NO.	"T"
1604 A	6-32	1604 B	4-40

THREAD DEPTH, 3 THREADS MIN.

Part No. 1604

Miniature Size



PART NO.	"X"	BD. THICK.	PART NO.	"X"	BD. THICK.
1605 A	.075	.031	1605 C	.135	.094
1605 B	.105	.062	1605 D	.165	.125

Part No. 1605

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

VOLTAGE BREAKDOWN: 10000 VOLTS A.C

RESISTANCE (TERMINAL TO BASE) $(10)^{12}$ OHMS

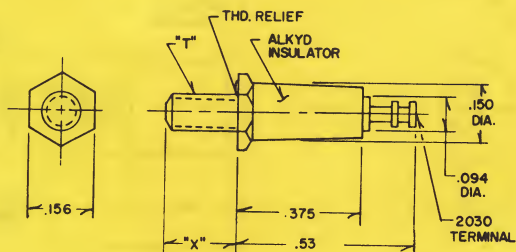
TOLERANCE; .XXX $\pm$.010, .XX $\pm$.016 BEFORE PLATING.

Insulated Terminals



Alkyd

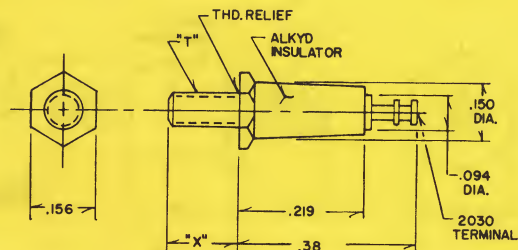
Miniature Size



PART NO. "X" "T"
1425 .218 2-56

Part No. 1425

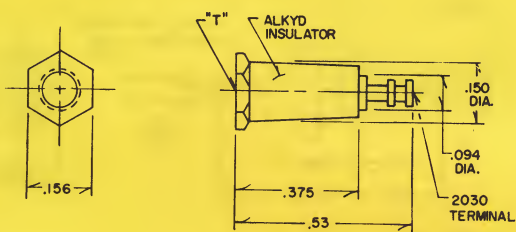
Sub-Miniature Size



PART NO. "X" "T" PART NO. "X" "T"
1426 A .125 2-56 1426 B .218 2-56

Part No. 1426

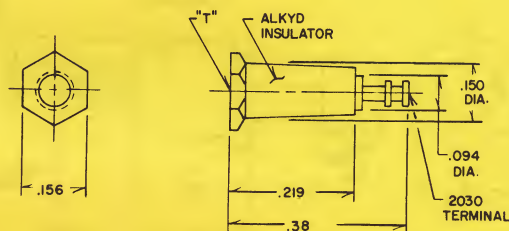
Miniature Size



PART NO. "T"
1427 2-56
THREAD DEPTH, 3 THREADS MIN.

Part No. 1427

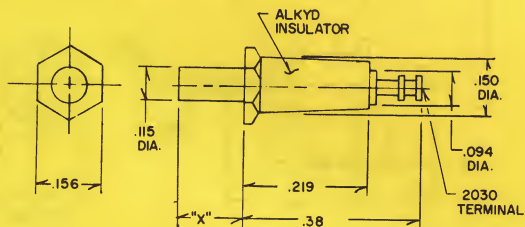
Sub-Miniature Size



PART NO. "T"
1428 2-56 X .06 DEEP
THREAD DEPTH, 3 THREADS MIN.

Part No. 1428

Sub-Miniature Size



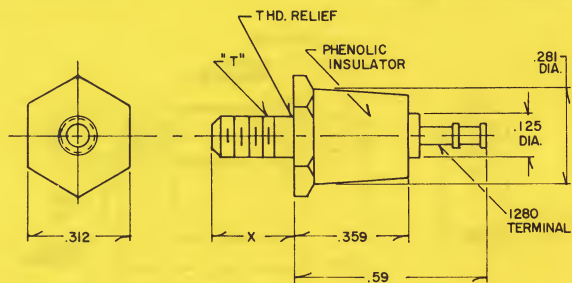
PART NO. "X" BD. THICK PART NO. "X" BD. THICK
1429 B .105 .062 1429 C .135 .094
1429 D .165 .125

Part No. 1429

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
PLATING: TERMINAL -9, BASE -11
VOLTAGE BREAKDOWN; 6000 VOLTS A.C
RESISTANCE (TERMINAL TO BASE) (10)¹² OHMS
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE PLATING.

Phenolic

Standard Size

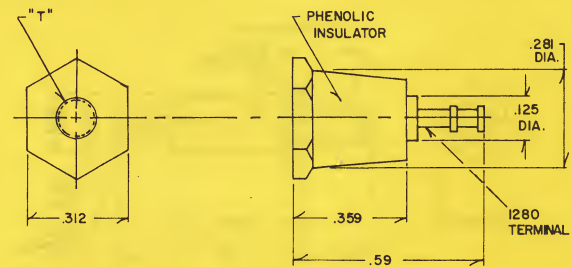


PART NO.	"X"	"T"	PART NO.	"X"	"T"
1400 A	3/16	6-32	1400 E	3/16	4-40
1400 B	1/4	6-32	1400 F	1/4	4-40
1400 C	5/16	6-32	1400 G	5/16	4-40
1400 D	3/8	6-32	1400 H	3/8	4-40

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.
RESISTANCE (TERMINAL TO BASE) (10^{12}) OHMS.

Part No. 1400

Standard Size



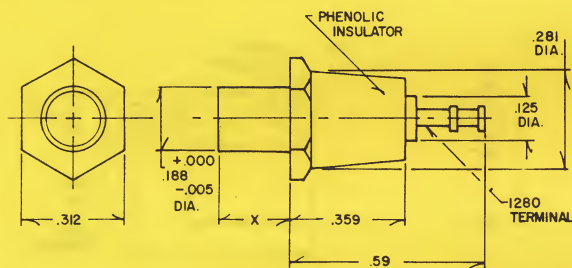
PART NO.	"T"	PART NO.	"T"
1401	6-32	1401 A	4-40

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.
RESISTANCE (TERMINAL TO BASE) (10^{12}) OHMS.
THREAD DEPTH, 3 THREADS MIN.

Part No. 1401

Diallyl Phthalate

Standard Size

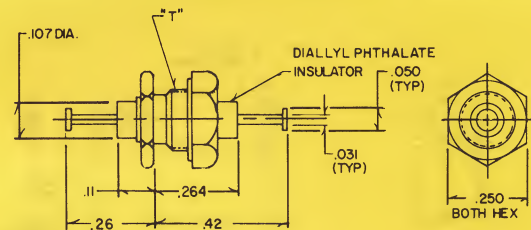


PART NO.	X	BD THICK	PART NO.	X	BD THICK
1410 A	.054	.031	1410 C	.125	.094
1410 B	.094	.062	1410 D	.156	.125

VOLTAGE BREAKDOWN 6000 VOLTS A.C. 60 CYCLES.
RESISTANCE (TERMINAL TO BASE), 10^{12} OHMS.

Part No. 1410

Sub-Miniature Size

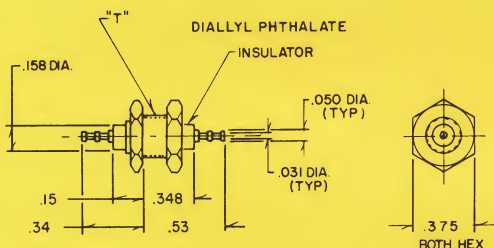


PART NO.	"T"
1430	10-32

VOLTAGE BREAKDOWN, 2500 VOLTS A.C.
RESISTANCE (TERMINAL TO BASE); $2(10^{11})$ OHMS
FOR USE WITH .094 (MAX) THICK MTG. BOARD

Part No. 1430

Miniature Size

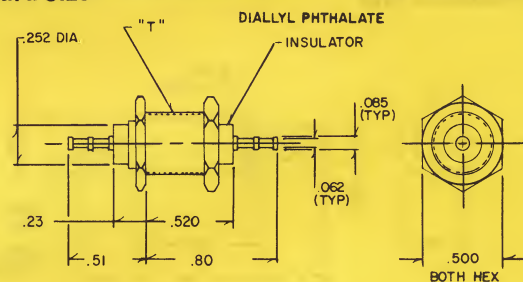


PART NO.	"T"
1433	1/4-28

VOLTAGE BREAKDOWN; 4000 VOLTS A.C.
FOR USE WITH .188 (MAX) THICK MTG. BOARD
RESISTANCE (TERMINAL TO BASE); 10^{12} OHMS.

Part No. 1433

Standard Size



PART NO.	"T"
1435	3/8-32

VOLTAGE BREAKDOWN; 6000 VOLTS A.C.
FOR USE WITH .250 (MAX) THICK MTG. BOARD
RESISTANCE (TERMINAL TO BASE), 10^{12} OHMS.

Part No. 1435

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9, BASE -11

TOLERANCE; .XXX $\pm$.010, .XX $\pm$.016 BEFORE PLATING.

MIL-T-55155 Insulated Terminals



MIL-T-55155

Diallyl Phthalate

Configurations, materials, platings and specifications conform to requirements of MIL-T-55155.

SPECIFICATIONS

Terminals

Material: Brass, ½ hard, composition 22, per QQ-B-626
Finish: Standard -4 (0.0005 Solder Plate)
Optional at additional cost -10 (0.00003 gold)

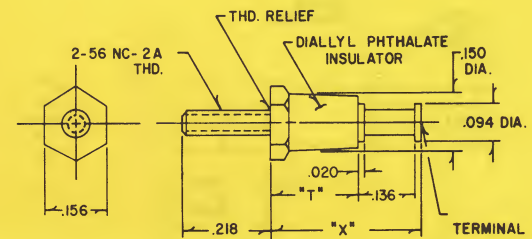
Bases

Material: Brass, ½ hard, composition 22 per QQ-B-626
Finish: Standard -11.2 (0.0003 Cadmium with iridescent yellow coating)

Insulating Materials

TEFLON per MIL-M-14077
HI-ALUMINA per MIL-I-10
DIALLYL PHTHALATE per MIL-M-19833, type GDI 30F

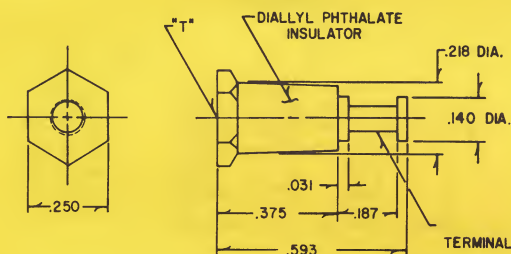
See Page 82 for ordering information and cross reference



PART NO.	"T"	"X"	PART NO.	"T"	"X"
4550 A	.219	.375	4550 B	.375	.532

MIL-T-55155/18-1 & -2

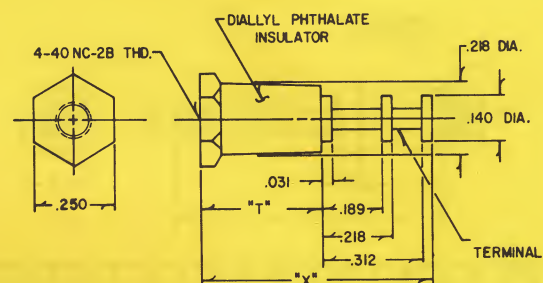
USECO Part No. 4550



PART NO.	"T"
4551	4-40

MIL-T-55155/19-1

USECO Part No. 4551

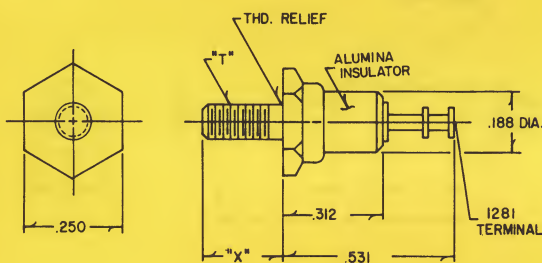


PART NO.	"T"	"X"	PART NO.	"T"	"X"
4552 A	.375	.718	4552 B	.594	.937

MIL-T-55155/20-1 & -2

USECO Part No. 4552

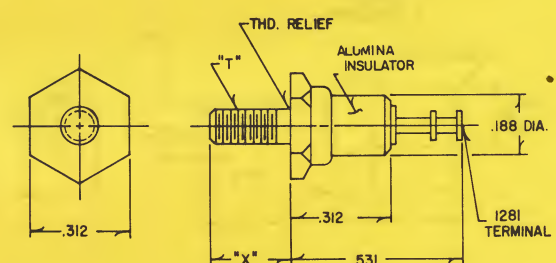
Hi-Alumina



PART NO.	"X"	"T"	PART NO.	"X"	"T"
4553 A	.250	4-40	4553 B	.375	4-40

MIL-T-55155/21-1 & -2

USECO Part No. 4553



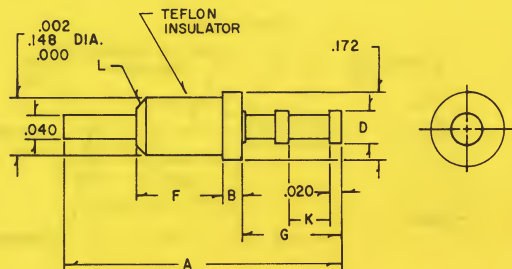
PART NO.	"X"	"T"	PART NO.	"X"	"T"
4554 A	.250	6-32	4554 B	.375	6-32

MIL-T-55155/21-3 & -4

USECO Part No. 4554

SEE PAGE 82 FOR ORDERING INFORMATION AND CROSS REFERENCE

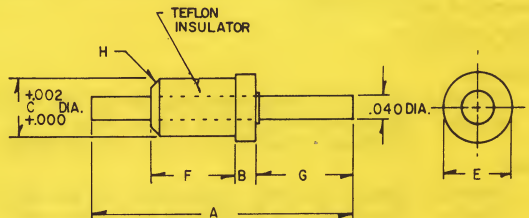
Teflon



LTR.	A	B	D	F	G	K	L
A	.500	.040	.080	.100	.210	.100	.015 X 45°
B	.836	.125	.093	.230	.250	.093	1/32 X 45°

MIL-T-55155/4-1 & -2

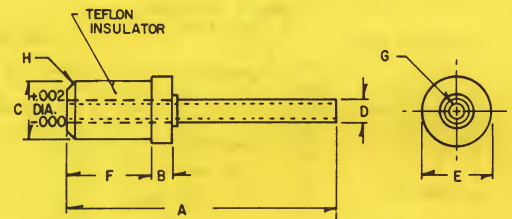
USECO Part No. 4500



LTR	A	B	C	E	F	G	H
A	.375	.040	.148	.172	.100	.125	.015 X 45°
B	.515	.040	.148	.172	.100	.210	.015 X 45°
C	.675	.125	.165	.187	.150	.200	1/32 X 45°

MIL-T-55155/3-1-2 & -3

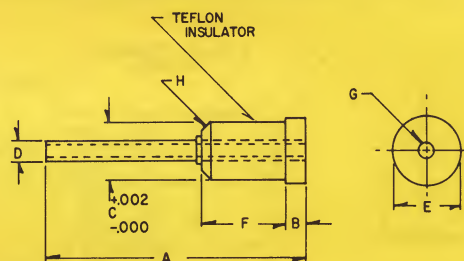
USECO Part No. 4501



LTR.	A	B	C	D	E	F	G	H
A	.225	.040	.093	.040	.125	.060	.030	.010 X 45°
B	.310	.050	.120	.040	.130	.053	.030	.015 X 45°
C	.367	.050	.148	.085	.172	.110	.063	.015 X 45°

MIL-T-55155/5-1-2 & -3

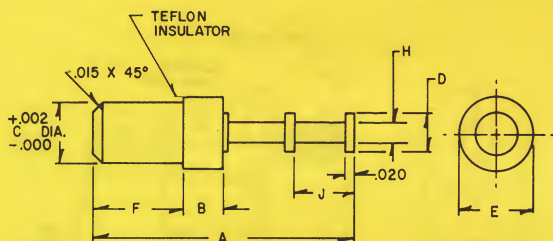
USECO Part No. 4502



LTR.	A	B	C	D	E	F	G	H
A	.193	.025	.125	.050	.150	.063	.030	.015 X 45°
B	.367	.050	.148	.085	.172	.110	.063	1/64 X 45°

MIL-T-55155/6-1 & -2

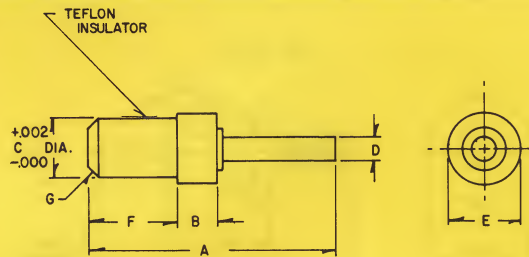
USECO Part No. 4503



LTR.	A	B	C	D	E	F	H	J
A	.359	.040	.148	.080	.172	.110	.040	.120
B	.421	.125	.165	.093	.187	.150	.045	.068

MIL-T-55155/7-1 & -2

USECO Part No. 4504



LTR.	A	B	C	D	E	F	G
A	.350	.040	.148	.040	.172	.100	.015 X 45°

MIL-T-55155/8-1

USECO Part No. 4505

SEE PAGE 82 FOR ORDERING INFORMATION AND CROSS REFERENCE

SECTION B

ENCAPSULATION CUPS

USECO Plastic Encapsulation Cups are offered in a wide variety of sizes and shapes for the packaging of almost any electronic component or module. These operationally proven cups were developed as a result of an intensive USECO survey which clearly indicated that increasingly more stringent military specifications governing the environmental parameters of electronic components could most efficiently and effectively be met with plastic-cased units.

Glass-filled diallyl phthalate is used for standard USECO encapsulation cups because of its unusually fine physical, chemical and electrical characteristics. One size cup can be used for a number of different components or modules. Leads, terminals and inserts may be spaced and placed as required.

USECO is equipped and staffed to handle all special requirements. These include customer-defined cup shapes and sizes; other thermosetting plastic materials; secondary operations such as drilling, reaming, and staking; custom headers and terminals; installation of terminals, headers, and inserts; and mold-imprinting or screening of numbers, diagrams, and other markings.

Specifications

Diallyl Phthalate	Heat Resistance—continuous ..450°-500°F.
.....MIL-M-19833 Type GDI 30F	Impact Strength—1200 Ft. Lb./In.....4-6
Arc Resistance180 Sec.	Specific Gravity1.86
Dielectric Strength—as is400 V/M	Tensile Strength9,500 p.s.i.
Dielectric Breakdown—as is63 KV	Thermal Expansion/°c @ 60°C.36
Dielectric Constant—as is—1 KC:1 MC...	Water Absorption—48 Hrs. @ 122°F...2..
.....4.2:4.1	Burning Time14 Sec.
Dissipation Factor—as is—1 KC:1 MC ...	Effect of Acids, StrongSlight
.....008:011	Effect of Acids, WeakNone
Surface Resistance—as is ..10 ⁷ + Megohms	Effect of Alkalies, StrongNone
Volume Resistance—as is ..10 ⁷ + Megohms	Effect of Alkalies, WeakNone
Compressive Strength34,000 p.s.i.	Effect of Organic SolventsNone
Flexural Strength20,000 p.s.i.	Effect of SunlightNone
Heat Distortion490°F.	

HOW TO ORDER: Encapsulation Cups should be ordered by part number.

Custom Encapsulation Cups on Special Order

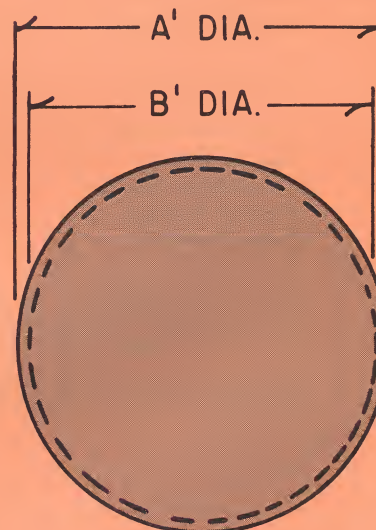
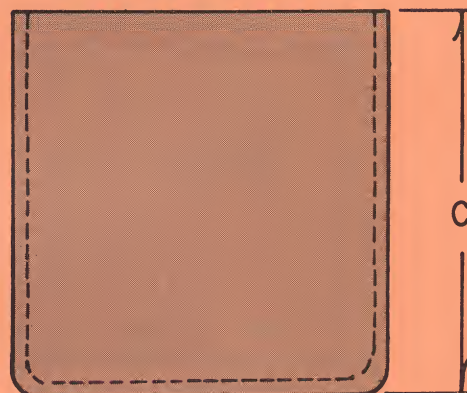
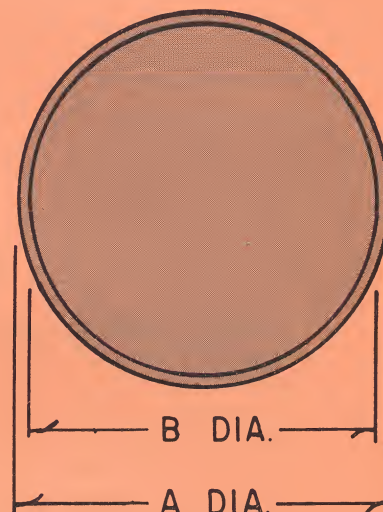
Complete Plating Specifications Listed on Page 84

Series 100 Round

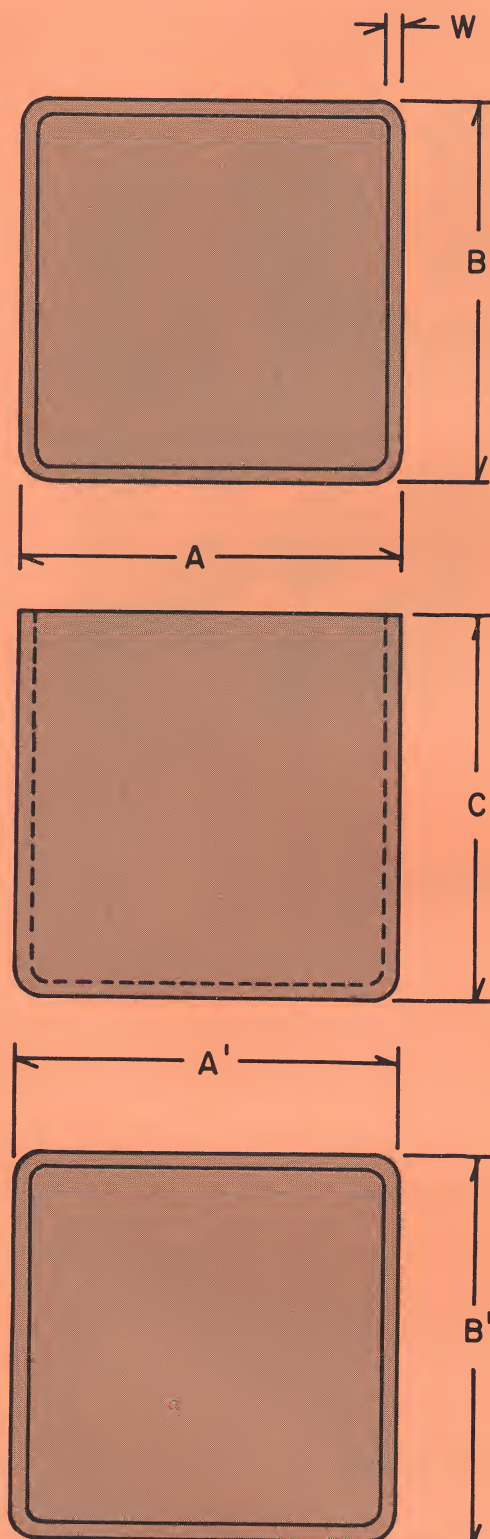
For special requirements please send your specifications for prompt quotation.

Tolerance; xxx $\pm .010$, "C" DIM $\pm .020$.

PART No.	A	A ¹	B	B ¹	C
102	.625	.611	.565	.551	.750
103	.745	.731	.685	.671	.620
104	.750	.744	.690	.684	.375
105	.750	.742	.690	.682	.500
106	.750	.740	.690	.680	.625
108	.875	.861	.815	.807	.750
133	1.000	.986	.940	.926	.750
134	1.062	1.054	.992	.984	.500
137	1.062	1.044	.992	.974	1.000
141	1.115	1.099	1.055	1.039	.875
143	1.125	1.105	1.065	1.045	1.125
144	1.250	1.240	1.190	1.180	.531
145	1.250	1.240	1.190	1.180	.625
148	1.250	1.232	1.190	1.172	1.062
150	1.312	1.300	1.252	1.240	.719
152	1.375	1.361	1.315	1.301	.750
156	1.428	1.410	1.368	1.350	1.125
182	1.500	1.474	1.440	1.414	1.500
184	1.750	1.738	1.690	1.678	.687
186	1.750	1.732	1.660	1.672	1.000
187	1.750	1.720	1.690	1.660	1.750
188	2.000	1.982	1.940	1.922	1.000
191	2.000	1.964	1.940	1.904	2.000
193	2.500	2.474	2.420	2.394	1.500
195	2.500	2.456	2.420	2.376	2.500
197	2.750	2.720	2.670	2.640	1.750
198	2.750	2.716	2.670	2.636	2.000



Encapsulation Cups

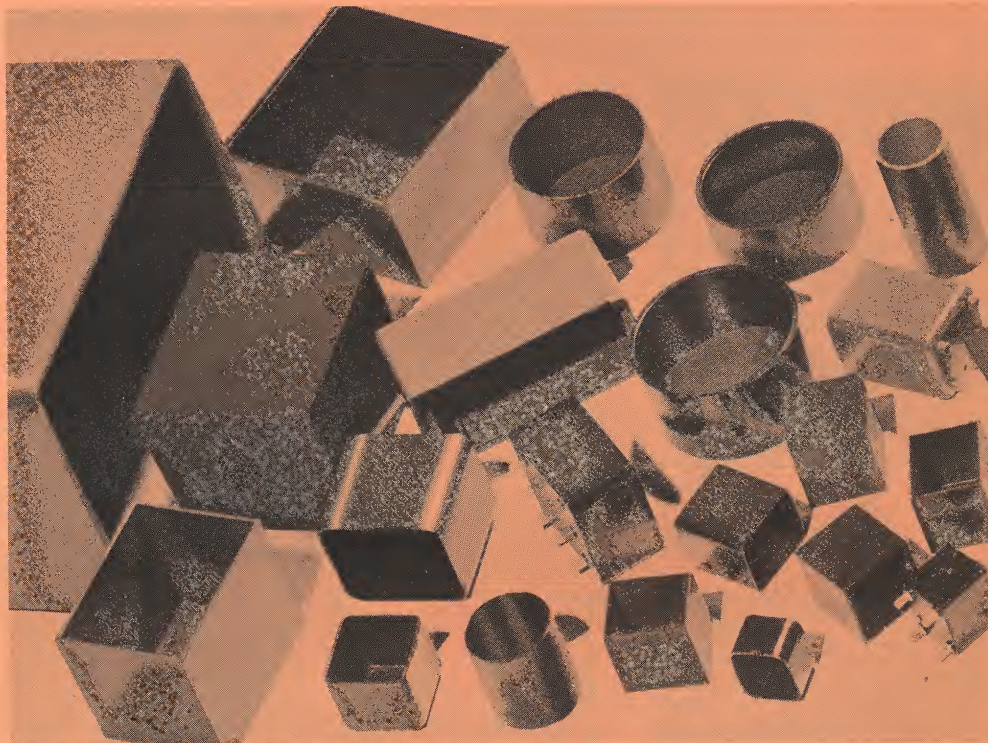


Series 200 Rectangular

For special requirements please send your specifications for prompt quotation.

Tolerance; xxx $\pm .010$, "C" DIM $\pm .020$.

PART No.	W	A	A ¹	B	B ¹	C
201	.020	.375	.365	.188	.178	.625
202	.020	.375	.365	.375	.365	.625
204	.031	.437	.431	.437	.431	.437
205	.020	.500	.492	.250	.242	.500
206	.020	.500	.486	.250	.238	.750
209	.020	.500	.484	.500	.484	1.000
210	.020	1.500	1.492	.500	.492	.500
211	.020	2.000	1.992	.500	.492	.500
212	.020	3.000	2.992	.500	.492	.500
213	.020	.550	.544	.402	.396	.380
214	.031	.630	.619	.510	.499	.680
216	.031	.632	.618	.632	.618	.850
217	.031	.763	.755	.763	.755	.500
219	.031	.763	.745	.763	.745	1.000
220	.031	.870	.854	.740	.724	1.000
221	.031	.870	.852	.740	.722	1.125
222	.031	.870	.850	.740	.720	1.250
224	.031	1.062	1.036	.940	.914	1.630
226	.031	1.125	1.095	1.000	.970	1.750
227	.031	1.250	1.226	1.000	.976	1.500
229	.031	1.250	1.210	1.000	.960	2.500
232	.031	1.428	1.390	1.146	1.108	2.380
233	.031	1.250	1.218	1.250	1.218	2.000
234	.031	1.188	1.160	1.062	1.034	1.625
235	.023	1.438	1.396	1.156	1.114	2.375
236	.023	1.844	1.796	1.375	1.327	2.750
237	.023	1.844	1.796	1.625	1.577	2.750
238	.023	1.637	1.593	1.263	1.219	2.500
239	.023	1.500	1.456	1.500	1.456	2.500
240	.031	2.406	2.342	1.938	1.874	3.625



Encapsulation Procedure

WITHOUT INTEGRAL HEADER

1. Install terminals.
2. Install inserts.
3. Place unit in cup.
4. Check for shorts.
5. Place cup-encased unit in vacuum chamber.
6. Add potting material, and subject to evacuation process.
7. Cure.
8. Test, clean, and identify unit.

WITH INTEGRAL HEADER FOR PLUG-IN MOUNTING

1. Wire part to header pins.
2. Press-fit part into cup.
3. Add potting material, and subject to evacuation process.
4. Cure.
5. Test, clean, and identify unit.

**NOW ALSO AVAILABLE WITH
DIALLYL PHTHALATE INSULATION**

MOLDED TERMINAL HEADERS

USECO molded terminal headers are design proven for transformer, electrolytic capacitor, plug-in type module, tube socket, can-type delay line, filter network, vibrator, and timer applications. Available in dozens of sizes and pin configurations. USECO headers may now be ordered with phenolic or diallyl phthalate insulation.

SPECIFICATIONS

Terminals	Choice of turret, pin or threaded
Material:	Brass, ½ hard, composition 22 per QQ-B-626
Finish:	Standard, -10 (0.00003 gold)
Rings	
Material:	Brass, ½ hard, composition 11 per QQ-B-613A
Finish:	Standard, Tin Dip
Insulating Materials	PHENOLIC Per MIL-M-14F, type MFH DIALLYL PHTHALATE Per MIL-M-19833, type GDI-30F
Marking	Pin numbers legibly molded into plastic
Performance	USECO headers meet pull test requirements of MIL-T-27A and CAA. Test data shown is based on average number of terminals. Break-down voltages and leakage resistance values were taken at normal room temperatures, atmospheric pressure, and 50% humidity. All headers provide 100,000 megohms minimum resistance.

HOW TO ORDER:

Standard items should be ordered by the part number which reflects the series, insulation and number of pins desired. It is not necessary to indicate dash numbers for standard plating.

Note:

1. When less than the full pattern of pins is ordered pins will be placed consecutively.
Example: 4033-14, pins will be numbered 1 through 14. Pin locations 15 and 16 will be blank.
2. Phenolic insulated headers will be supplied unless diallyl phthalate is specifically ordered. To indicate diallyl add the prefix "D" to part number as in the example below.
Example: 4033-14, Series 4033, 14 pins numbered consecutively, phenolic insulation
D4033-14, Series 4033, 14 pins numbered consecutively, diallyl phthalate insulation

Installation Procedure

Satisfactory installation procedures have been developed using soldering iron, both standard and with hollow ring tips, and with induction heaters. It is possible to damage the phenolic with excessive heat, and great care should be exercised to limit temperature of the solder ring to the minimum necessary to obtain a good joint.

The following procedure is recommended:

Preparation of Enclosure

The opening should be 1/32" greater than the plastic diameter. This will allow space for gases formed from the flux to escape without blowing pinholes in the solder seal.

Recommended base for soldering is hot tip dip or .0003" copper plate and .0005" tin plate, electrolytic tin is superior to hot tin dip where it is necessary to paint the terminal face of the case.

Soldering

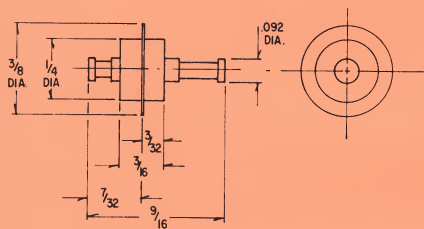
The procedure recommended was developed to permit installation with a minimum of heat applied to the plastic. No damage will be done during a momentary rise in temperature such as is necessary in order to properly flow the solder, but excessive temperatures may be attained in induction heating or oven soldering methods. The best method for soldering with an iron is as follows:

Preheat lid thoroughly before seating terminal; this may be done while soldering previous lid using a small electric plate.

Run solder around ring of terminal using 3/16" tip in 60 to 100 watt iron. Keep iron near edge of ring and away from plastic. Use .050" to 1/16" diameter 60/40 solder (60% tin), alcohol and rosin flux, "#30 Supersafe" liquid flux as made by Superior Flux Co., Cleveland, Ohio, is very good, but the lid must be thoroughly cleaned and neutralized after soldering if this is used.

We have found that spraying or painting the internal portion of any terminal, with Schenectady #642 varnish, substantially reduces the percentage of sealing failures, which are caused by overheating when soldering either ring to case or wires to pins. We recommend that this be done after installing and internally wiring USECO terminals.

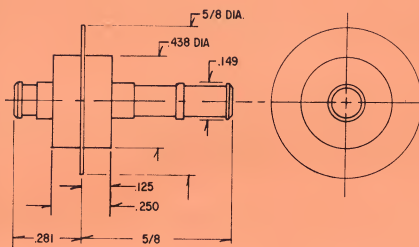
Midget Single



CURRENT CAPACITY : 10 AMPS. MAX.
MTG HOLE 17/64 DIA.

Part No. 4008

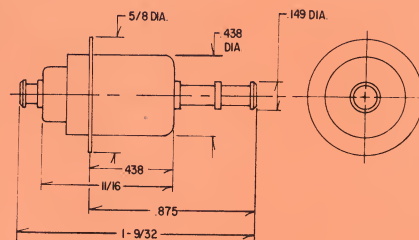
Single



CURRENT CAPACITY : 16 AMPS. MAX.
MTG HOLE 29/64 DIA.

Part No. 4010

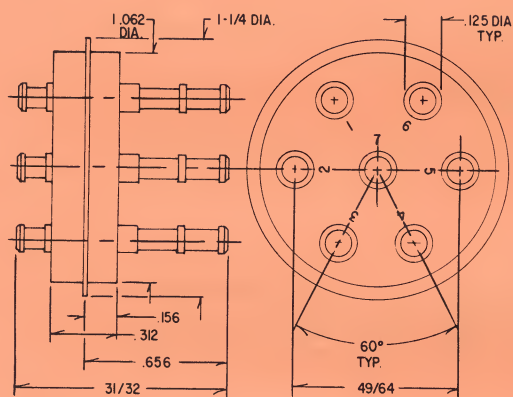
Hi Voltage



CURRENT CAPACITY : 20 AMPS. MAX.
MTG HOLE 29/64 DIA.

Part No. 4011

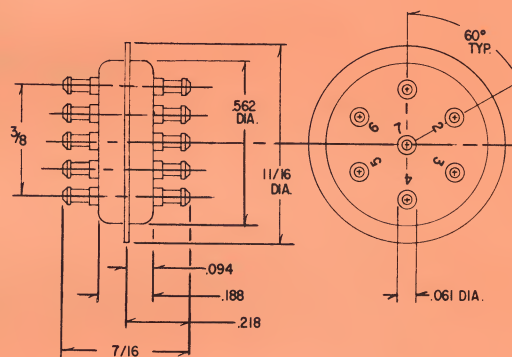
Multiple



CURRENT CAPACITY : 16 AMPS. MAX.
MTG HOLE 1-3/32 DIA.
4014 - PINS NUMBERED 1 TO 6 COUNTER-CLOCKWISE
4078 - PINS NUMBERED 1 TO 6 CLOCKWISE

Part No. 4014 & 4078

Multiple



CURRENT CAPACITY : 4 AMPS. MAX.
MTG HOLE 37/64
4074 - PINS NUMBERED 1 TO 7 CLOCKWISE
4163 - HAS STRAIGHT PINS .060 DIA X 3/16 ONE SIDE

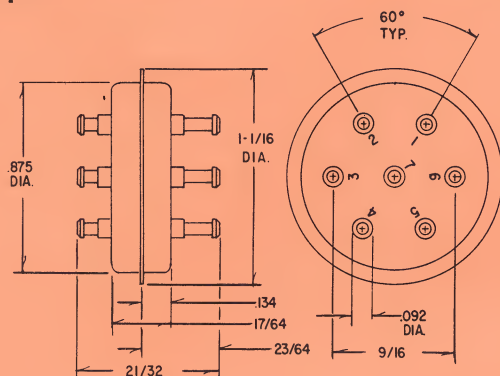
Part No. 4074 & 4163

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
RESISTANCE, 100,000 MEGOHMS MIN.
TOLERANCE; .XXX ± .010
FRACTION 1/64
TEST VOLTAGE-PEAK: 4500 MAX.
OPERATING VOLTAGE-PEAK: 1750 MAX.

Molded Terminal Headers



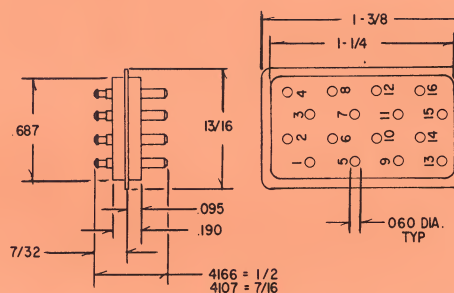
Multiple



CURRENT CAPACITY ; 10 AMPS. MAX.
MTG. HOLE ; 29/32 DIA.
4064 - PINS NUMBERED 1 TO 8 CLOCKWISE
4162 - HAS STRAIGHT PINS .060 DIA. X 3/16 ONE SIDE

Part No. 4064 & 4162

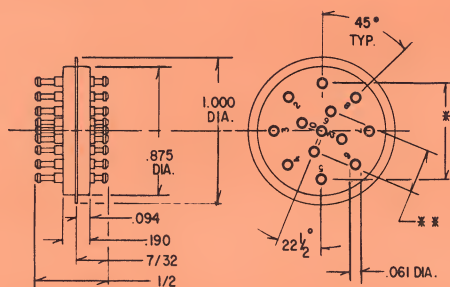
Multiple



CURRENT CAPACITY ; 4 AMPS. MAX.
MTG. HOLE ; 1-9/32 X 23/32
PINS CONSECUTIVELY NUMBERED 1 TO 16
4166 HAS STRAIGHT PINS .060 X 3/16 ONE SIDE
4107 HAS TURRET PINS 7/32 BOTH SIDES
DUE TO DIFFICULTY IN TINNING, THE FLANGE IS GOLD PLATED

Part No. 4107 & 4166

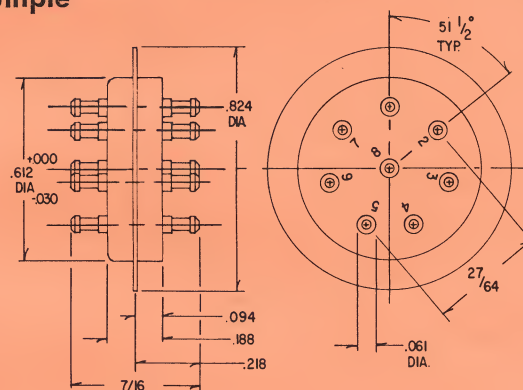
Multiple Midget



CURRENT CAPACITY ; 4 AMPS. MAX.
MTG. HOLE ; 29/32
PINS NUMBER 1 TO 12 CLOCKWISE
4164 HAS STRAIGHT PINS .060 DIA. X 3/16 ONE SIDE
4056 HAS 5/16 PINS ONE SIDE
4068 HAS 7/32 PINS BOTH SIDES
* 4109 & 4164 — .656 * 4109 & 4164 — .297
* 4056 & 4068 — .687 * 4056 & 4068 — .312

Part No. 4109, 4164, 4056 & 4068

Multiple



CURRENT CAPACITY ; 4 AMPS. MAX.
MTG. HOLE ; 41/64 DIA.
4151R OVERALL RING DIMENSION IS 3/32
4151 & 4151R PINS NUMBERED 1 TO 6 COUNTER-CLOCKWISE
4167 PINS NUMBERED CLOCKWISE

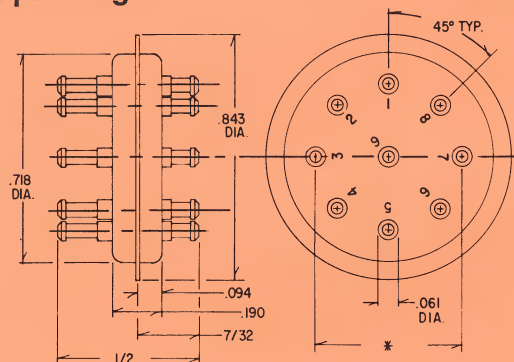
Part No. 4151, 4151R, 4167 & 4013

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

RESISTANCE, 100,000 MEGOHMS MIN.
TOLERANCE; .XXX ± .010
FRACTION 1/64
TEST VOLTAGE—PEAK: 4500 MAX.
OPERATING VOLTAGE—PEAK: 1750 MAX.

Molded Terminal Headers

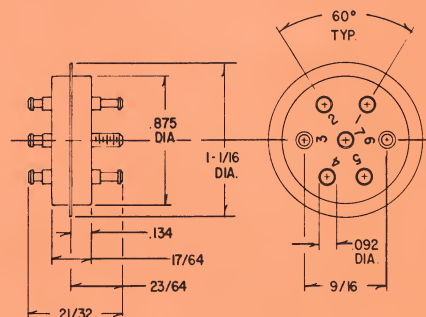
Multiple Midget



CURRENT CAPACITY ; 4 AMPS. MAX.
 PINS NUMBERED 1 TO 8 CLOCKWISE
 4165 HAS STRAIGHT PINS .060 DIA. X 3/16 ONE SIDE
 4055 HAS 5/16 PINS ONE SIDE
 4067 HAS 7/32 PINS BOTH SIDES

Part No. 4115, 4165, 4055 & 4067

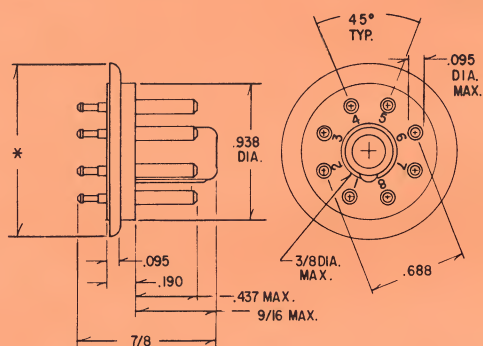
Multiple



CURRENT CAPACITY ; 10 AMPS. MAX.
 PINS NUMBERED 1 TO 6 COUNTER-CLOCKWISE
 PINS NUMBERED 3 & 6 ARE 2-56 THREADED STUDS
 4152R RING DIA IS 31/32

Part No. 4152 & 4152R

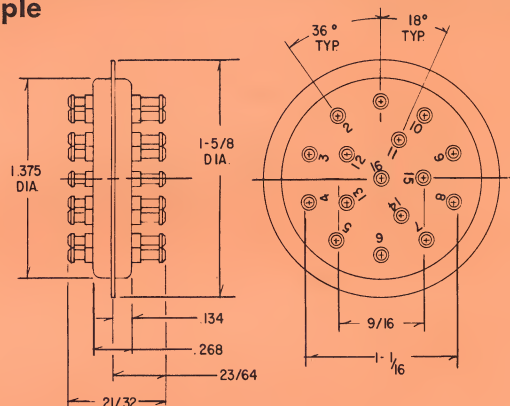
Octal



CURRENT CAPACITY , 16 AMPS. MAX.
 MTG. HOLE ; 61/64 DIA
 PINS NUMBERED 1 TO 8 CLOCKWISE.
 4098 - 1 3/16 DIA (RING FLANGE).
 4098R1 - 1.010 I.D. (ROLLED FLANGE).
 4098R2 - 1.075 O.D. (ROLLED FLANGE).

Part No. 4098

Multiple



CURRENT CAPACITY ; 10 AMPS. MAX.
 MTG. HOLE 1- 13/32
 PINS NUMBERED 1 TO 16 COUNTER-CLOCKWISE

Part No. 4033

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

RESISTANCE, 100,000 MEGOHMS MIN.

TOLERANCE; .XXX ± .010
 FRACTION 1/64

TEST VOLTAGE-PEAK: 4500 MAX.

OPERATING VOLTAGE-PEAK: 1750 MAX.

SECTION C

LOC-FIT® INSULATED TERMINALS

"LOC-FIT" insulated terminals, featuring the most advanced design in Teflon insulated stand-off and feed-thru terminals, are available from stock in standard and subminiature sizes. A wide assortment of terminal configurations offers the design engineer greater flexibility in chassis preparation.

"LOC-FIT" ADVANTAGES:

1. Standard drill tolerances apply, allowing high speed production drilling or pre-punching of chassis or mounting plates.
2. No counter-bore or chamfer is required.
3. No costly de-burring operation is necessary.
4. USECO 2 piece construction allows stocking of only 4 sizes of Teflon grommets for numerous terminal configurations.
5. Teflon grommets available for hole sizes required for existing press-type Teflon terminals.
6. Existing tooling allows normal or semi-automatic installation.
7. Tooling cost nominal.
8. Lower initial terminal cost.
9. Reduced inventory.

SPECIFICATIONS

Terminals and Receptacles

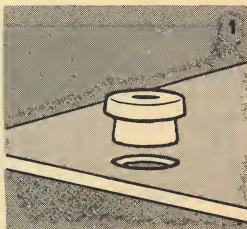
Material: Brass, ½ hard, composition 22 Per QQ-B-626.

Finish: Standard -9 (0.000015 gold over 0.0003 silver)

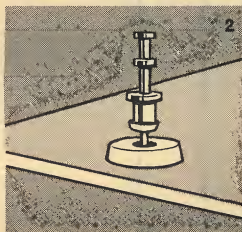
Insulator

Material: Teflon per MIL-M-14077

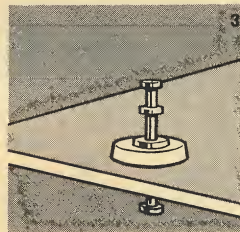
Installation Procedure:



1. PUSH TEFLON GROMMET INTO HOLE - By hand, or with available tooling. No precision tolerances, counter-boring, or de-burring operations necessary with LOC-FIT terminals. **SAVE 40% ON CHASSIS PREPARATION!**



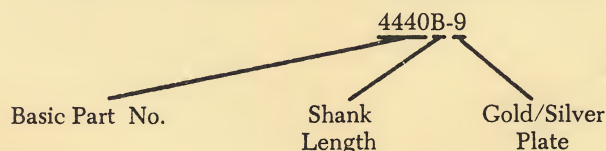
2. INSERT LOC-FIT TERMINAL - Any standard configuration of insulated, or feed-thru terminal, readily fits one of two grommets. **DOWN GOES YOUR INVENTORY!**



3. SNAP LOC-FIT INTO PLACE - Positive lock is effected immediately. Teflon deformation around terminal base and chassis assures 6 to 10 pounds in-line pull strength. **GET HARD USAGE APPLICATIONS AT LOWER COST!**

How To Order: Order "Loc-Fit" by assembly number as shown on the print. The assembly includes the terminals and the matching Teflon grommet. Be sure to include letter designation for the shank length.

Example:



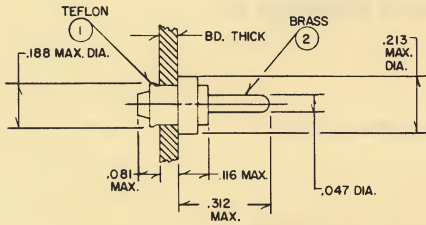
Replacement parts of each "Loc-Fit" assembly may be ordered separately if desired. Check factory for part number and prices.

Custom Terminals and Platings on Special Order

Complete Plating Specifications Listed on Page 84

Terminals

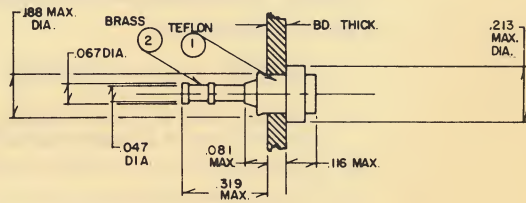
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
4402 A			.031	+.003			
4402 B			.062	.142	4402		
4402 C			.094	-.001			

Part No. 4402

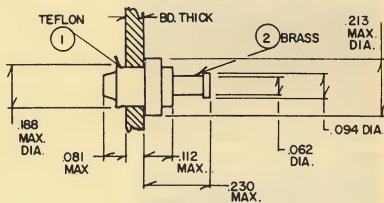
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
4430 A			.031	+.003			
4430 B			.062	.142	4430		
4430 C			.094	-.001			
4430 D			.125	DIA.			

Part No. 4430

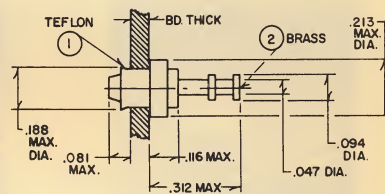
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
4435 A			.031	+.003			
4435 B			.062	.142	4435		
4435 C			.094	-.001			

Part No. 4435

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
4440 A			.031	+.003			
4440 B			.062	.142	4440		
4440 C			.094	-.001			

Part No. 4440

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL —9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1)
TO SEAT ON SHOULDER.

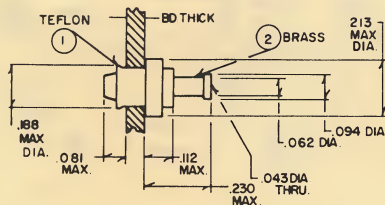
TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING

Loc-Fit[®] Insulated Terminals and Connectors



Terminals

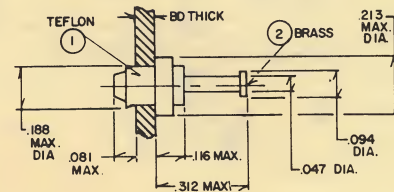
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT/1000
4446 A			.031	+.003			
4446 B			.062	.142	4446		
4446 C			.094	-.001 DIA.			

Part No. 4446

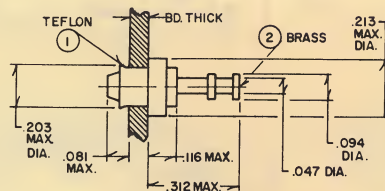
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT/1000
4460 A			.031	+.003			
4460 B			.062	.142	4460		
4460 C			.094	-.001 DIA.			

Part No. 4460

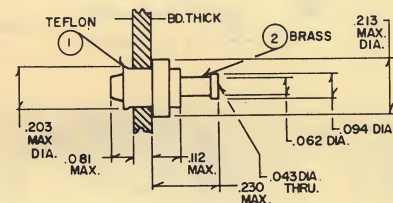
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT/1000
4470 A			.031	+.003			
4470 B			.062	.154	4470		
4470 C			.094	-.001 DIA.			

Part No. 4470

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT/1000
4476 A			.031	+.003			
4476 B			.062	.154	4476		
4476 C			.094	-.001 DIA.			

Part No. 4476

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

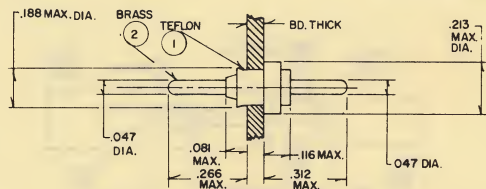
PLATING: TERMINAL -9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1)
TO SEAT ON SHOULDER.

TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING.

Feed-Thrus

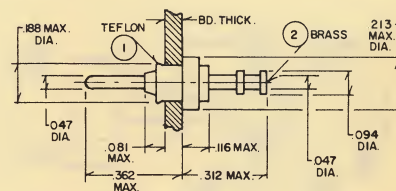
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4401 A			.031	+.003			
4401 B			.062	.142			
4401 C			.094	-.001			

Part No. 4401

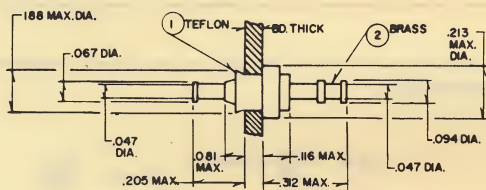
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4437 A			.031	+.003			
4437 B			.062	.142			
4437 C			.094	-.001			

Part No. 4437

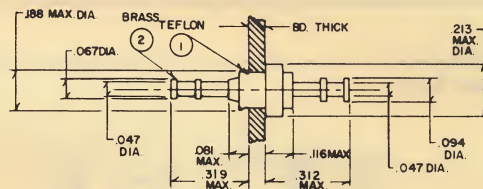
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4441 A			.031	+.003			
4441 B			.062	.142			
4441 C			.094	-.001			
4441 D			.125				

Part No. 4441

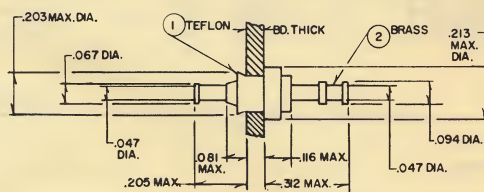
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4442 A			.031	+.003			
4442 B			.062	.142			
4442 C			.094	-.001			

Part No. 4442

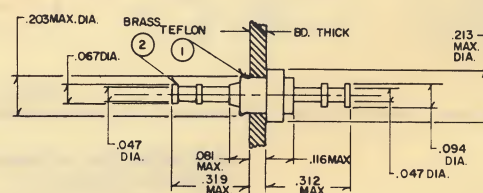
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4471 A			.031	+.003			
4471 B			.062	.154			
4471 C			.094	-.001			
4471 D			.125				

Part No. 4471

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4472 A			.031	+.003			
4472 B			.062	.154			
4472 C			.094	-.001			

Part No. 4472

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL —9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1) TO SEAT ON SHOULDER.

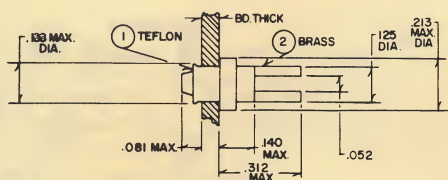
TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING.

Loc-Fit[®] Insulated Terminals and Connectors



Bifurcated Terminals

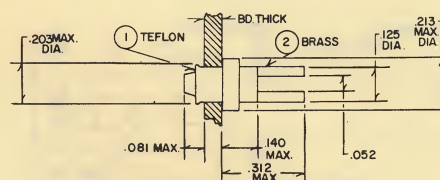
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4443 A			BD THICK .031 +.003	
4443 B			.062 .142	4443
4443 C			.094 -.001 DIA.	

Part No. 4443

Miniature Size

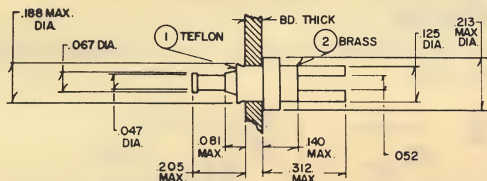


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4473 A			BD THICK .031 +.003	
4473 B			.062 .154	4473
4473 C			.094 -.001 DIA.	
4473 D			.125	

Part No. 4473

Bifurcated Feed-Thrus

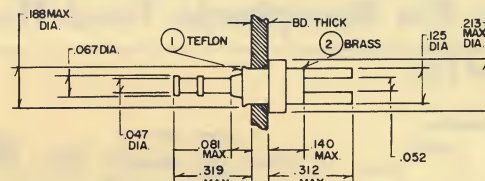
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4444 A			BD THICK .031 +.003	
4444 B			.062 .142	4444
4444 C			.094 -.001 DIA.	

Part No. 4444

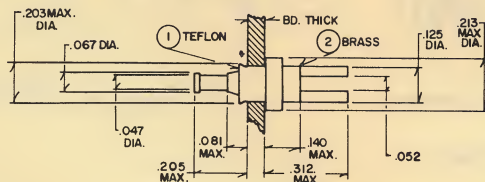
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4445 A			BD THICK .031 +.003	
4445 B			.062 .142	4445
4445 C			.094 -.001 DIA.	

Part No. 4445

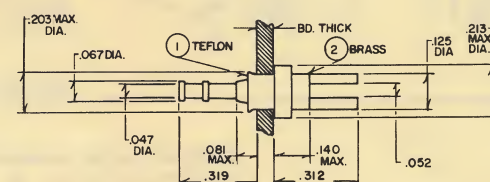
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4474 A			BD THICK .031 +.003	
4474 B			.062 .154	4474
4474 C			.094 -.001 DIA.	

Part No. 4474

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4475 A			BD THICK .031 +.003	
4475 B			.062 .154	4475
4475 C			.094 -.001 DIA.	

Part No. 4475

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

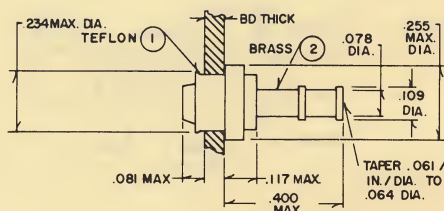
PLATING: TERMINAL -9.

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1) TO SEAT ON SHOULDER.

TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING

Taper Pin Receptacle

Standard Size

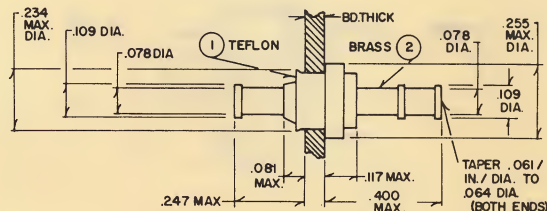


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4447 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4447 SWAGE PRESS	
4447 B			.062 .188	
4447 C			.094 -.001 DIA.	

Part No. 4447

Taper Pin Receptacle Feed-Thru

Standard Size

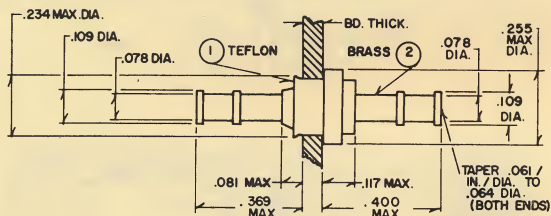


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4448 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4448 SWAGE PRESS	
4448 B			.062 .188	
4448 C			.094 -.001 DIA.	

Part No. 4448

Taper Pin Receptacle Feed-Thru

Standard Size

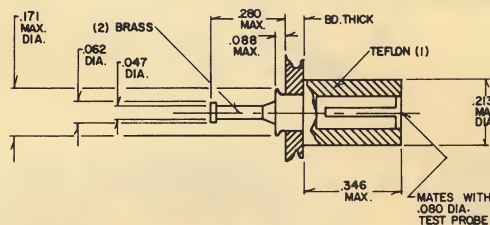


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4449 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4449 SWAGE PRESS	
4449 B			.062 .188	
4449 C			.094 -.001 DIA.	

Part No. 4449

Test Point

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4450 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4450 SWAGE PRESS	
4450 B			.062 .126	
4450 C			.094 -.001	
4450 D			.125	

Part No. 4450

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL —9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1) TO SEAT ON SHOULDER.

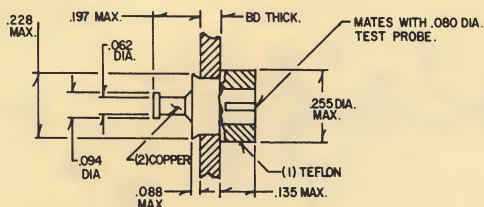
TOLERANCE (STANDARD); .XXX= ± .010 BEFORE PLATING.

Loc-Fit[®] Insulated Terminals and Connectors



Test Point

Miniature Size

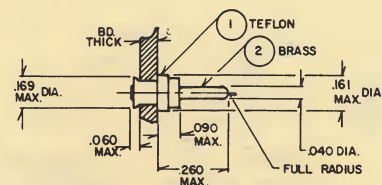


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK.	MTG HOLE	RECOMMENDATIONS SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4451 A			.031	.189	+ .003	4451	
4451 B			.062				
4451 C			.094				
4451 D			.125				

Part No. 4451

Terminals

Sub-Miniature Size

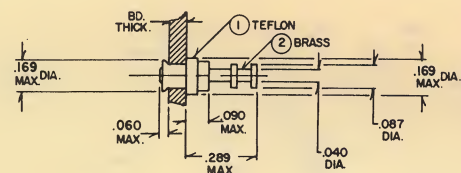


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK.	MTG HOLE	RECOMMENDATIONS SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4480 A			.031	.126	+ .003	4480	
4480 B			.062				

Part No. 4480

Terminals

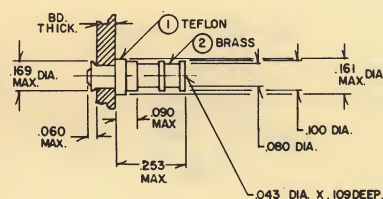
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK.	MTG HOLE	RECOMMENDATIONS SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4482 A			.031	.126	+ .003	4482	
4482 B			.062				

Part No. 4482

Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK.	MTG HOLE	RECOMMENDATIONS SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
4483 A			.031	.126	+ .003	4483	
4483 B			.062				

Part No. 4483

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

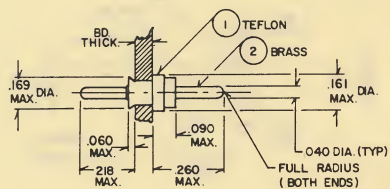
PLATING: TERMINAL —9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1) TO SEAT ON SHOULDER.

TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING

Feed-Thrus

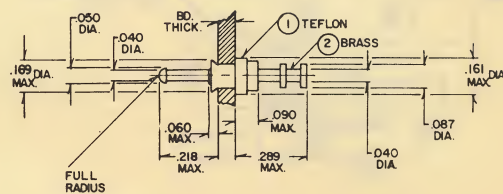
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4485 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4485 SWAGE PRESS	
4485 B			.062 .126 -.001 DIA.	

Part No. 4485

Sub-Miniature Size

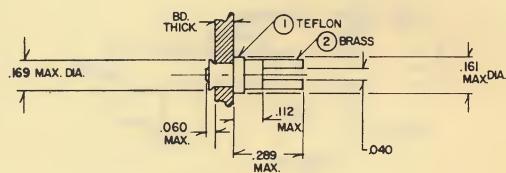


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4487 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4487 SWAGE PRESS	
4487 B			.062 .126 -.001 DIA.	

Part No. 4487

Bifurcated Terminals

Sub-Miniature Size

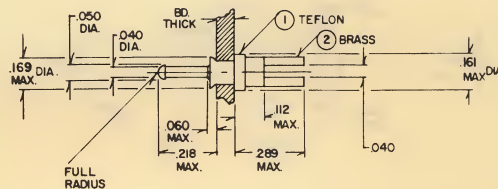


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4484 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4484 SWAGE PRESS	
4484 B			.062 .126 -.001 DIA.	

Part No. 4484

Bifurcated Feed-Thrus

Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS	APPROX. WT/1000
4489 A			BD THICK .031 MTG HOLE +.003 SWAGE TOOL 4489 SWAGE PRESS	
4489 B			.062 .126 -.001 DIA.	

Part No. 4489

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

PLATING: TERMINAL -9,

INSERT ITEM (1) INTO BOARD BEFORE PRESSING ITEM (2) THRU ITEM (1) TO SEAT ON SHOULDER.

TOLERANCE (STANDARD); .XXX = $\pm .010$ BEFORE PLATING

**NEW MIL-T-55155
TERMINALS ON PAGES 50, 51, 52**

SECTION D

TERMINALS, STANDOFFS, FEED-THRUS CONNECTORS AND RECEPTACLES

Precision made USECO standard terminals, connectors and receptacles are available in more than 200 types. This wide choice, locally stocked throughout the United States and Canada, allows the engineer for design flexibility, assures "on time" production schedules.

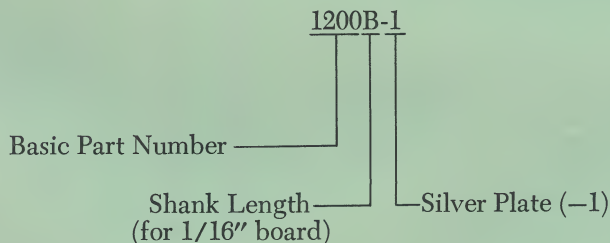
For customer convenience, and as an additional precautionary measure, all terminals are packaged in standard quantities within a vapor-resistant cellothene container.

SPECIFICATIONS (Except for MIL-T-55155 Terminals)

Terminals and Feedthrus	Choice of turret, bifurcated, hollow & blind hole configurations; standard, miniature, subminiature and micro-miniature sizes
Material:	Brass, 1/2 hard, composition 22, per QQ-B-626 or brass tubing per WW-T-791 Grade 2
Finish:	Standard -1 (0.0003 silver)
Connectors & Receptacles:	Choice of taper pins, banana plugs and various receptacles
Material:	Brass, 1/2 hard, composition 22 per QQ-B-626 and Beryllium copper per QQ-S-533 Cond. A
Finish:	Standard -1 (0.0003 silver)

HOW TO ORDER: Standard terminals, connectors and receptacles should be ordered by part number. Include the letter designation for the shank length and the number for plating callout. Silver plating (-1) is standard on all terminals and will be shipped if no plating number is specified.

Example:

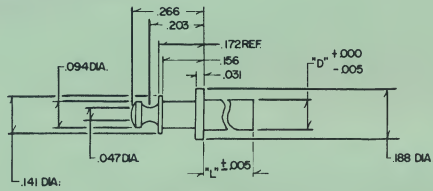


Custom Terminals and Platings on Special Order

Complete Plating Specifications Listed on Page 84

Turret

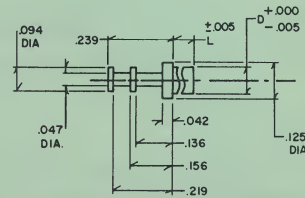
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1210 A	.114 DIA.	.075	.031	.003			
1210 B		.105	.062	.116			
1210 C		.135	.094	.001	1210	800 LBS.	1 LB.
1210 D		.165	.125				

Part No. 1210

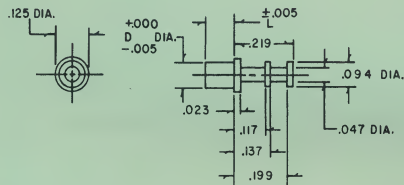
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1280 A		.075	.031	.003			
1280 B	.091 DIA.	.105	.062	.093			
1280 C		.135	.094	.001	1280	500 LBS.	8 OZ.
1280 D		.165	.125				

Part No. 1280

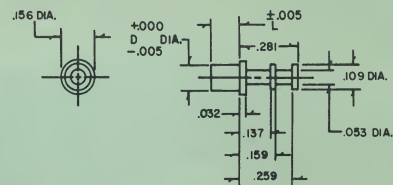
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1281 A		.078	.031	.003			
1281 B		.109	.062	.092			
1281 C	.090 DIA.	.140	.094	.001	1281	500 LBS.	8 OZ.
1281 D		.171	.125				

Part No. 1281

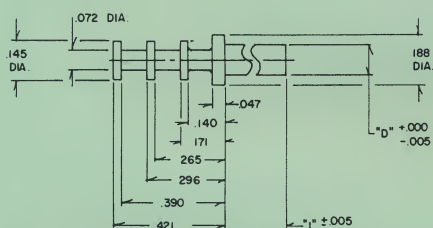
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1282 A		.078	.031	.003			
1282 B		.109	.062	.092			
1282 C	.092 DIA.	.140	.094	.001	1282	500 LBS.	8 OZ.
1282 D		.171	.125				

Part No. 1282

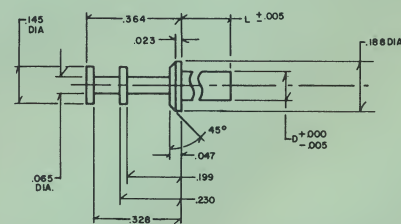
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1299 A	.114 DIA.	.075	.031	.003			
1299 B		.105	.062	.116			
1299 C		.135	.094	.001	1299	1200 LBS.	1 LB. 9 OZ.
1299 D		.165	.125				

Part No. 1299

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1300 A		.075	.031	.003			
1300 B		.105	.062	.116			
1300 C	.114 DIA.	.135	.094	.001	1300	800 LBS.	1 LB. 10 OZ.
1300 D	.116 DIA.	.165	.125				
1300 T	.440 THD	.188					1 LB. 6 OZ.

1300T SUPPLIED WITH .188 HEX. ACROSS FLATS, AND THREAD RELIEF.

Part No. 1300

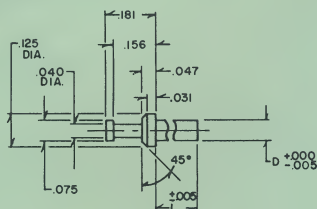
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Terminals



Turret

Miniature Size

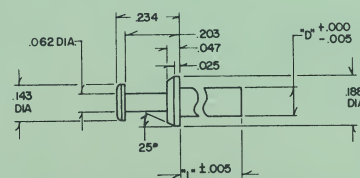


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
1340 A		.075	.031	+.003			
1340 B	.079 DIA.	.105	.062	.081	1340	800 LBS.	1 LB.
1340 C		.135	.094	-.001			
1340 D		.165	.125				
1340 T	2-56 THD.	.125		.094 DIA.			7 OZ.

1340T SUPPLIED WITH .125 HEX, ACROSS FLATS, AND THREAD RELIEF.

Part No. 1340

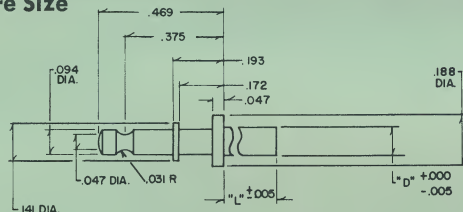
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
1350 B	.114 DIA.	.105	.062	+.003			
1350 C		.135	.094	.116	1350	800 LBS.	15 OZ.
1350 D		.165	.125	-.001			

Part No. 1350

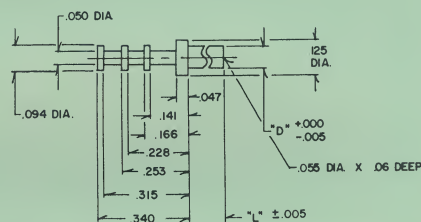
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
1370 B		.105	.062	+.003			
1370 C	.114 DIA.	.135	.094	.116	1370	800 LBS.	1 LB 80Z
1370 D		.165	.125	-.001			

Part No. 1370

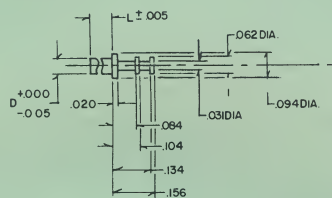
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
2035 A		.075	.031	+.003			
2035 B		.105	.062				
2035 C	.089 DIA.	.135	.094	.091	2035	500 LBS.	10 OZ.
2035 D		.165	.125	-.001			

Part No. 2035

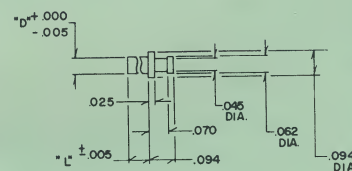
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
2030 AA		.037	.016	+.003			
2030 A		.053	.031				
2030 B	.062 DIA.	.084	.062	.064	2030	300 LBS.	2 OZ.
2030 C		.115	.094	-.001			
2030 D		.147	.125				

Part No. 2030

Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
2060 AA		.037	.016	+.003			
2060 A	.063 DIA.	.053	.031				
2060 B		.084	.062	-.001			
2060 C		.115	.094				
2060 D		.147	.125				

Part No. 2060

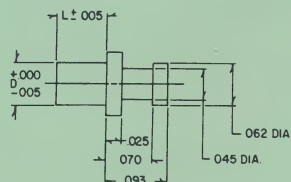
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

STANDARD PLATING -1

TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Turret

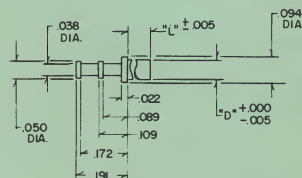
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
2062 AA	.062 DIA.	.025	.016	2062
2062 A		.045	.031	
2062 B		.094	.062	
2062 C		.125	.094	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 2062

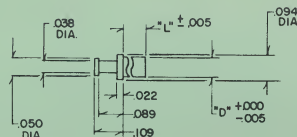
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
2520 A	.073 DIA.	.053	.031	2520
2520 B		.084	.062	
2520 C		.115	.094	
2520 D		.147	.125	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 2520

Sub-Miniature Size

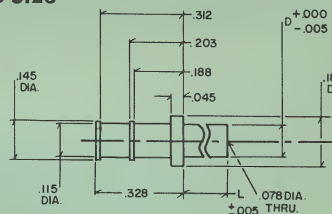


ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
2540 A	.073 DIA.	.053	.031	2540
2540 B		.084	.062	
2540 C		.115	.094	
2540 D		.147	.125	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 2540

Hollow

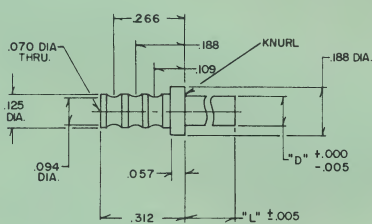
Miniature Size



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
1200 A	.114 DIA.	.075	.031	1200
1200 B		.105	.062	
1200 C		.135	.094	
1200 D		.165	.125	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 1200

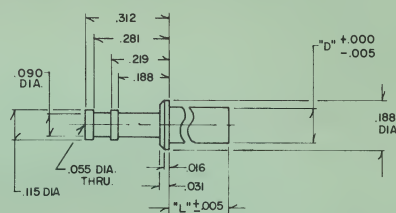
Miniature Size



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
1260 B	.114 DIA.	.105	.062	1260
1260 C		.135	.094	
1260 D		.165	.125	
			.188	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 1260

Miniature Size



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS	APPROX. WT./1000
1330 B	.135 DIA.	.105	.062	1330
1330 C		.135	.094	
1330 D		.165	.125	
			.188	
			MTG. HOLE +.003	
			SWAGE TOOL -.001	
			SWAGE PRESS	

Part No. 1330

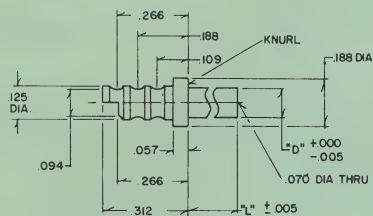
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING —1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Terminals



Hollow

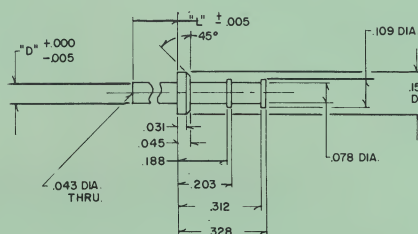
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1380 A	.114 DIA	.105	.062	.116	+.003	1380	800 LBS.
1380 B		.135	.094		-.001		
1380 C		.165	.125				
1380 D							

Part No. 1380

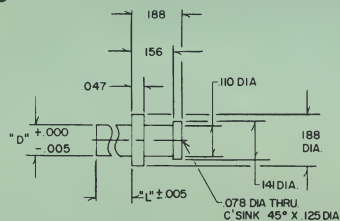
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1390 A	.079 DIA	.075	.031	.081	+.003	1390	500 LBS.
1390 B		.105	.062		-.001		
1390 C		.135	.094				
1390 D		.165	.125				

Part No. 1390

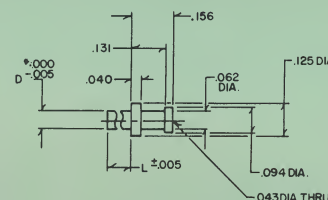
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1392 A	.111 DIA	.075	.031	.081	+.003	1392	800 LBS.
1392 B		.105	.062		-.001		
1392 C		.135	.094				
1392 D		.165	.125				

Part No. 1392

Sub-Miniature Size

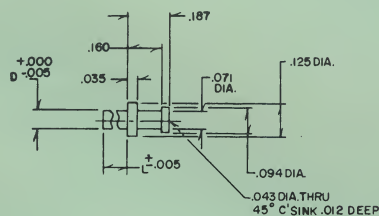


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2010 AA	.063 DIA	.037	.016	.041	+.003	2010	300 LBS.
2010 A		.053	.031		-.001		
2010 B		.084	.062				
2010 C		.115	.094				
2010 D		.147	.125				
200 T		.125					

2010T SUPPLIED WITH .125 HEX ACROSS FLATS, AND THREAD RELIEF.

Part No. 2010

Sub-Miniature Size

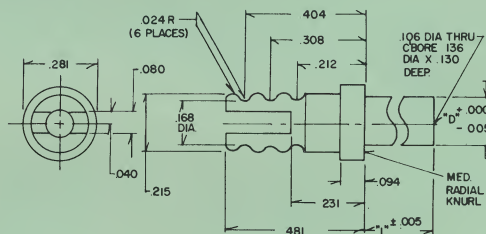


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2011 AA	.073 DIA	.037	.016	.041	+.003	2011	500 LBS.
2011 A		.053	.031		-.001		
2011 B		.084	.062				
2011 C		.115	.094				
2011 D		.147	.125				

Part No. 2011

Bifurcated

Miniature Size



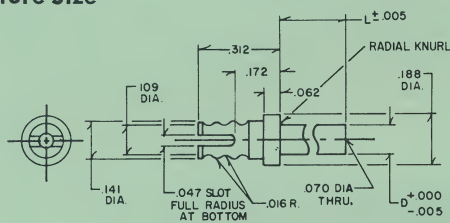
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1240 B	.183 DIA	.105	.062	.185	+.003	1240	1200 LBS.
1240 C		.135	.094		-.001		
1240 D		.165	.125				

Part No. 1240

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Bifurcated

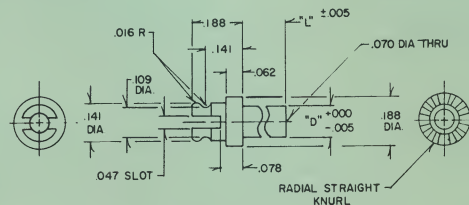
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1250 A	.114 DIA.	.075	.031	+ .003	1250	800 LBS.	1 LB. 12 OZ.
1250 B		.105	.062				
1250 C		.135	.094				
1250 D		.165	.125				

Part No. 1250

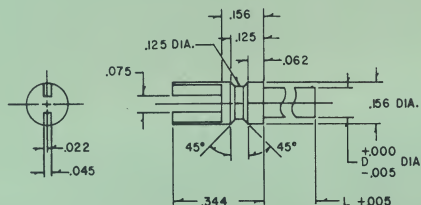
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1255 A	.114 DIA.	.075	.031	+ .003	1255	800 LBS.	1 LB. 12 OZ.
1255 B		.105	.062				
1255 C		.135	.094				
1255 D		.165	.125				

Part No. 1255

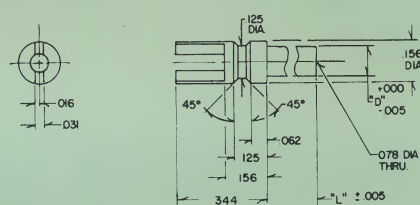
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1304 B	.110 DIA.	.105	.062	+ .003	1304	1000 LBS.	1 LB. 5 OZ.
1304 C		.135	.094				
1304 D		.165	.125				

Part No. 1304

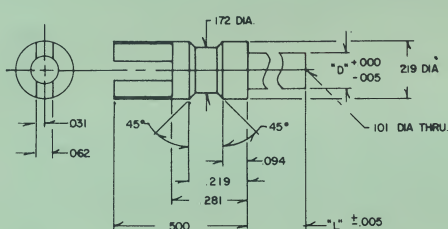
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1305 B	.114 DIA.	.105	.062	+ .003	1305	1000 LBS.	1 LB. 5 OZ.
1305 C		.135	.094				
1305 D		.165	.125				

Part No. 1305

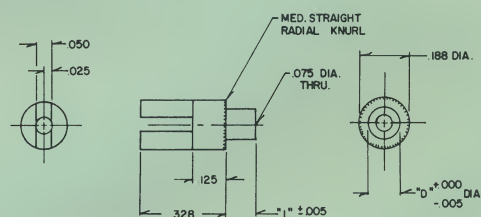
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1306 B	.135	.105	.062	+ .003	1306	1000 LBS.	1 LB. 7 OZ.
1306 C		.135	.094				
1306 D		.165	.125				

Part No. 1306

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
1308 A	.114 DIA.	.075	.031	+ .003	1308	800 LBS.	1 LB. 5 OZ.
1308 B		.105	.062				
1308 C		.135	.094				
1308 D		.165	.125				

Part No. 1308

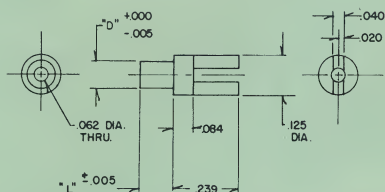
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING —1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Terminals



Bifurcated

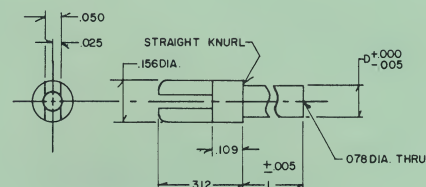
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
1309 A	.091 DIA.	.075	.031	+.003			
1309 B		.105	.062		1309		
1309 C		.135	.094	-.001			
1309 D		.165	.125			500 LBS.	10 OZ.

Part No. 1309

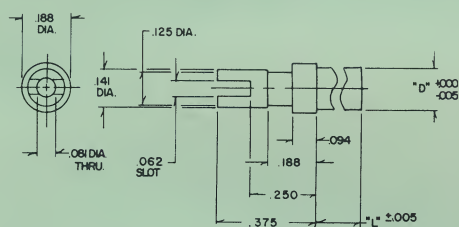
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
1310 A	.114 DIA.	.075	.031	+.003			
1310 B		.105	.062		116		
1310 C		.135	.094	-.001			
1310 D		.165	.125			800 LBS.	15 OZ.

Part No. 1310

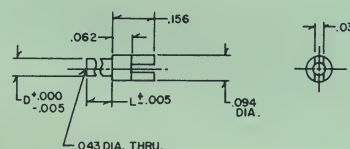
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
1391 A	.151 DIA.	.075	.031	+.003			
1391 B		.105	.062		1391		
1391 C		.135	.094	-.001			
1391 D		.165	.125			1000 LBS.	1 LB 11 OZ.

Part No. 1391

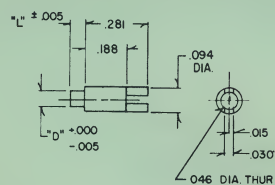
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2000 AA	.063 DIA.	.037	.016				
2000 A		.053	.031	+.003			
2000 B		.084	.062				
2000 C		.115	.094	-.001			
2000 D		.147	.125			2000	300 LBS.

Part No. 2000

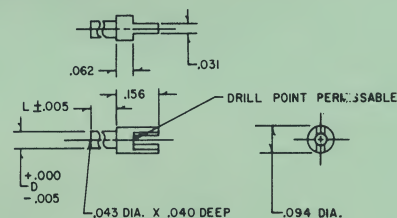
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2001 AA	.062 DIA.	.037	.016				
2001 A		.053	.031	+.003			
2001 B		.084	.062				
2001 C		.115	.094	-.001			
2001 D		.147	.125			2001	300 LBS.

Part No. 2001

Sub-Miniature Size



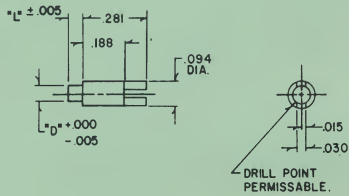
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2003 AA	.063 DIA.	.037	.016				
2003 A		.053	.031	+.003			
2003 B		.084	.062				
2003 C		.115	.094	-.001			
2003 D		.147	.125			2003	300 LBS.

Part No. 2003

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Bifurcated

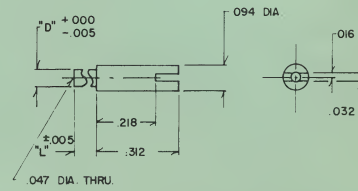
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2004 AA	.062 DIA	.037	.016				
2004 A		.053	.031	+ .003			
2004 B		.084	.062	.064	2004	300 LBS.	5 OZ.
2004 C		.115	.094	-.001			
2004 D		.147	.125				

Part No. 2004

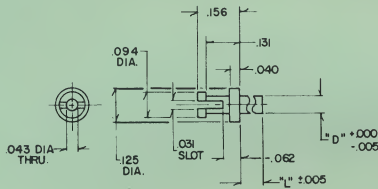
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2005 AA	.062 DIA	.037	.016				
2005 A		.053	.031				
2005 B		.084	.062	+ .003	2005	300 LBS.	10 OZ.
2005 C		.115	.094	.064			
2005 D		.147	.125	-.001			

Part No. 2005

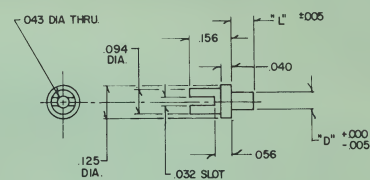
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2020 AA	.063 DIA	.037	.016	+ .003			
2020 A		.053	.031	.065			
2020 B		.084	.062	-.001	2020	300 LBS.	4 OZ.
2020 C		.115	.094				
2020 D		.147	.125				

Part No. 2020

Sub-Miniature Size

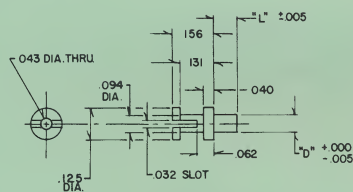


ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2021 AA	.063 DIA	.037	.016				
2021 A		.053	.031	+ .003	2021	300 LBS.	4 OZ.
2021 B		.084	.062	.065			
2021 C		.115	.094	-.001			
2021 D		.147	.125				

Part No. 2021

Bifurcated Feed-Thru

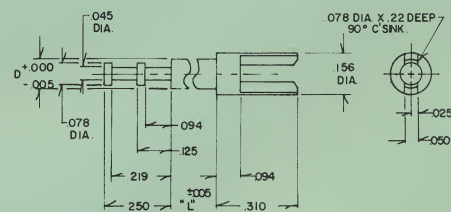
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
2022 AA	.063 DIA	.037	.016	+ .003			
2022 A		.053	.031	.065			
2022 B		.084	.062	-.001	2022	300 LBS.	4 OZ.
2022 C		.115	.094				
2022 D		.147	.125				

Part No. 2022

Miniature Size



ORDER BY PART NO.	D NOM	L NOM	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX WT/1000
1311 B	.114 DIA	.105	.062	+ .003			
1311 C		.135	.094	.16			
1311 D		.165	.125	-.001	1311	900 LBS.	1 LB 6 OZ.

Part No. 1311

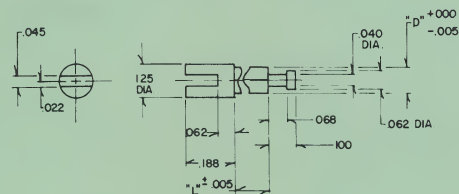
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING —1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Terminals

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Bifurcated Feed-Thru

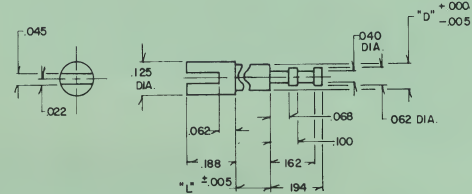
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
1315 B	.094 DIA.	.094	.062	+ .003			
1315 C		.125	.094	.006	1315	400	1 LB. 2 OZ.
1315 D		.156	.125	-.001			

Part No. 1315

Miniature Size

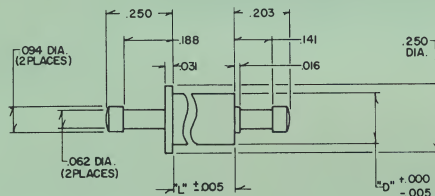


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
1316 B	.094 DIA.	.094	.062	+ .003			
1316 C		.125	.094	.006	1316	400	1 LB. 3 OZ.
1316 D		.156	.125	-.001			

Part No. 1316

Feed-Thru

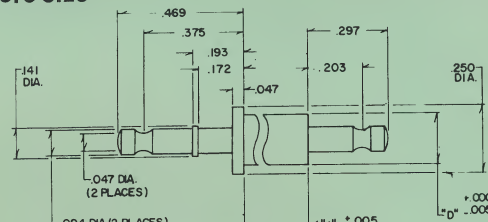
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
1220 B	.183 DIA.	.105	.062	.185	+ .003		
1220 C		.135	.094	.001	1220	1200	1 LB. 15 OZ.
1220 D		.165	.125				

Part No. 1220

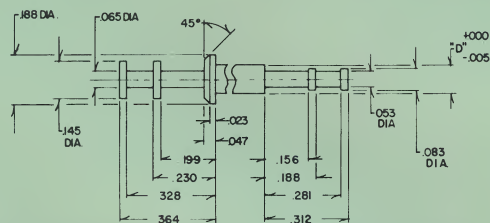
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
1230 B	.183 DIA.	.105	.062	.185	+ .003		
1230 C		.135	.094	.001	1230	1200	2 LB. 14 OZ.
1230 D		.165	.125				

Part No. 1230

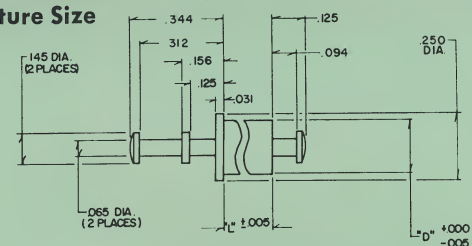
Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
				+ .003			
1301 C	.114 DIA.	.135	.094	.001	1301	1000	1 LB. 9 OZ.
1301 D		.165	.125				

Part No. 1301

Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			B.D. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS	
1320 B	.204 DIA.	.105	.062	.206	+ .003		
1320 C		.135	.094	.001	1320	1600	2 LB. 8 OZ.
1320 D		.165	.125				

Part No. 1320

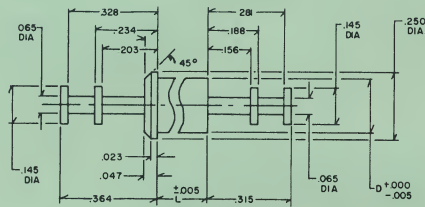
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

STANDARD PLATING -1

TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Feed-Thru

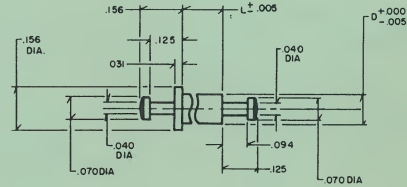
Miniature Size



ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
1360 C	.204 DIA	.135	.094	+.003			3 LB.
1360 D		.165	.125	.206	1360	1600 LBS.	

Part No. 1360

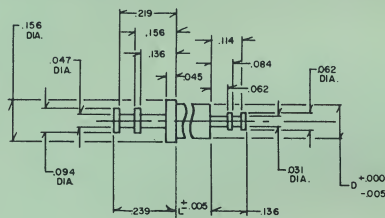
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
1290 A	.114 DIA.	.075	.031	+.003			
1290 B		.105	.062	.116			
1290 C		.135	.094	-.001	1290	800 LBS.	8 OZ.
1290 D		.165	.125				

Part No. 1290

Sub-Miniature Size

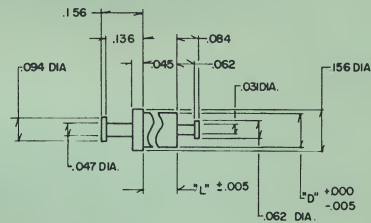


ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2040 A	.126 DIA.	.075	.031	+.003			
2040 B		.105	.062	.128			
2040 C		.135	.094	-.001	2040	800 LBS.	14 OZ.
2040 D		.165	.125				
2040 T	.15-40 THD.	.125			136 DIA.		1 LB.

2040T SUPPLIED WITH .156 HEX. ACROSS FLATS, AND THREAD RELIEF.

Part No. 2040

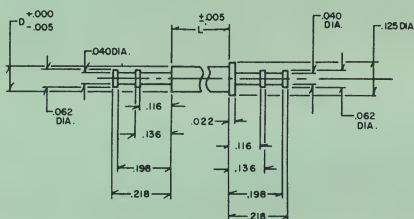
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2050 A	.126 DIA.	.075	.031	+.003			
2050 B		.105	.062	.128			
2050 C		.135	.094	-.001	2050	800 LBS.	12 OZ.
2050 D		.165	.125				

Part No. 2050

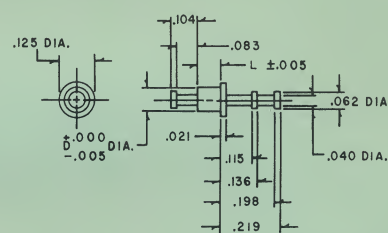
Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2500 A	.091 DIA.	.053	.031	+.003			
2500 B		.084	.062	.093			
2500 C		.115	.094	-.001	2500	400 LBS.	7 OZ.
2500 D		.147	.125				

Part No. 2500

Sub-Miniature Size



ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2501 A	.090 DIA.	.062	.031	+.003			
2501 B		.093	.062	.092			
2501 C		.125	.094	-.001	2501	400 LBS.	6 OZ.
2501 D		.156	.125				

Part No. 2501

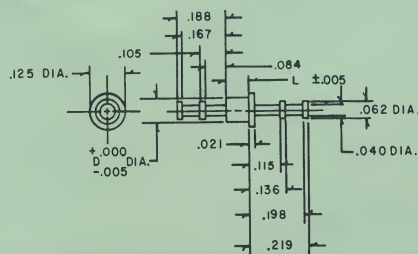
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Terminals



Feed-Thru

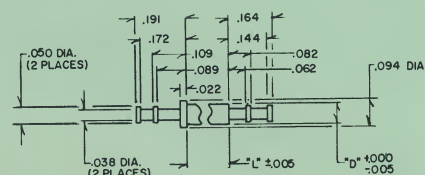
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2502 A	.090 DIA.	.062	.031	+.003	2502	400 LBS.	7 OZ.
2502 B		.093	.062	+.003			
2502 C		.125	.093	.092			
2502 D		.156	.125	-.001			

Part No. 2502

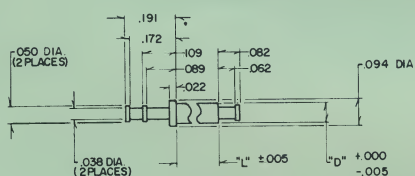
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2509 A	.073 DIA.	.053	.031	+.003	2509	400 LBS.	5 OZ.
2509 B		.084	.062	.075			
2509 C		.115	.094	-.001			
2509 D		.147	.125				

Part No. 2509

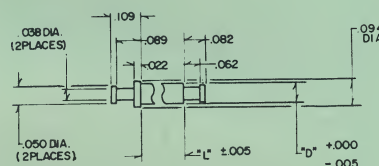
Sub-Miniature Size



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2510 A	.073 DIA.	.053	.031	+.003	2510	400 LBS.	4 OZ.
2510 B		.084	.062	.075			
2510 C		.115	.094	-.001			
2510 D		.147	.125				

Part No. 2510

Sub-Miniature Size

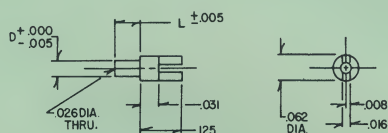


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2530 A	.073 DIA.	.053	.031	+.003	2530	400 LBS.	3 OZ.
2530 B		.084	.062	.075			
2530 C		.115	.094	-.001			
2530 D		.147	.125				

Part No. 2530

Micro Miniature

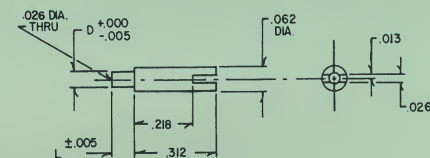
Bifurcated



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2002 AA	.042 DIA.	.037	.016	+.003	2002	200LBS.	2 OZ.
2002 A		.053	.032	.044			
2002 B		.084	.062	-.001			
2002 C		.115	.094				
2002 D		.147	.125				

Part No. 2002

Bifurcated



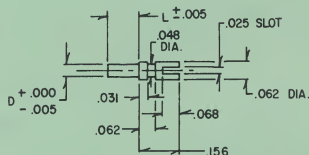
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2006 AA	.042 DIA.	.037	.016	+.003	2006	200LBS.	5 OZ.
2006 A		.053	.032	.044			
2006 B		.084	.062	-.001			
2006 C		.115	.094				
2006 D		.147	.125				

Part No. 2006

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING —1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Bifurcated

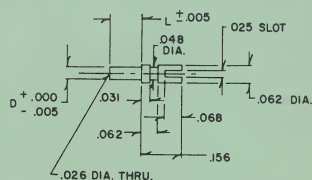
Micro Miniature



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2023 AA		.037	.016	+.003			
2023 A		.053	.031	.050			
2023 B		.084	.062	-.001			
2023 C	.048 DIA.	.115	.094		2023	200 LBS.	
2023 D		.147	.125			2.5 OZ.	

Part No. 2023

Micro Miniature

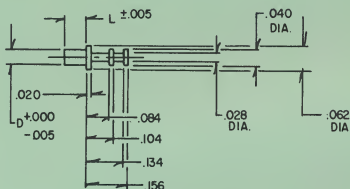


ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			B THICK	MTG HOL	SWAGE TOOL	SWAGE PRESS	
2024 AA	.048 DIA.	.037	.016	.003	2024	200	
2024 A		.053	.031	.050			
2024 B		.084	.062	-.001			
2024 C		.115	.094				
2024 D		.147	.125				

Part No. 2024

Turret

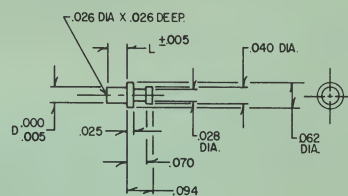
Micro Miniature



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS			APPROX WT/1000	
			BD THICK	MTG HOLE	SWAGE TOOL		
2031 AA	.042	.037	.016	+ .003	2031	200 LBS	1 OZ
2031 A		.053	.031	.044			
2031 B		.084	.062	-.001			
2031 C	DIA.	.115	.094				
2031 D		.147	.125				

Part No. 2031

Micro Miniature

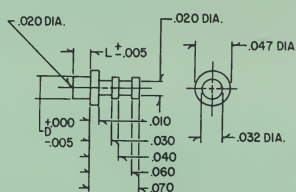


ORDER BY PART NO.	D NOM	L NOM	RECOMMENDATIONS			APPROX WT/1000	
			B THICK	MTC TOOL	SWAGE PRESS		
2061 AA	.042 DIA.	.037	.016	+ .003	2061	200LBS.	2 OZ.
2061 A		.053	.031	.044			
2061 B		.084	.062	-.001			
2061 C		.115	.094				
2061 D		.147	.125				

Part No. 2061

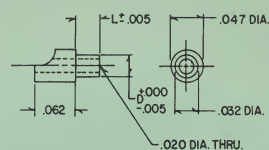
Solder Pot

Micro Miniature



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS.	
2064 AA		.037	.016	+ .003			
2064 A	.032	.053	.031	.034			
2064 B	DIA	.084	.062	-.001			
2064 C		.115	.094		2064	200LBS	1 OZ.
2064 D		.147	.125				

Part No. 2064



ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			SD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2063 AA		.037	.016	+ .003			
2063 A	.032 DIA.	.053	.031	.034			
2063 B		.084	.062				
2063 C		.115	.094		2064	200LBS	
2063 D		.147	.125			1 OZ.	

Part No. 2063

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

U S E C O

Combination

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a knurl and a hub with a threaded hole. Dimensions are labeled as follows:

- THD: Threaded hole diameter
- A: Hub outer diameter
- B: Hub inner diameter
- C: Shaft outer diameter
- D: Shaft inner diameter
- E: Hub length
- F: Shaft length
- G: Hub bore length
- L: Shaft length
- MED. STRAIGHT KNURL: Medium straight knurl

Dimension values are given in inches:

- THD: .312, .344, .375
- A: .125, .141, .156
- B: .062, .078, .094
- C: .250, .312, .375
- D: .172, .203, .234
- E: .125, .141, .156
- F: .062, .078, .094
- G: .250, .312, .375
- L: .125, .141, .156

PART NO.	THD	A	B	C	E	F	G
1203 C	6-32 X .22	.312	.125	.062	.250	.172	.125
1203 D	8-32 X .28	.344	.141	.078	.312	.203	.156
1203 E	10-32 X .34	.375	.156	.094	.375	.234	.156

ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
				± .003			
				.223			LBS.
1203 C	.221 DIA	.141	.094	.253	1203 C	1800	7 LB.
1203 D	.251 DIA	.172	.125	.260	1203 D	1800	10 LB.
1203 E	.258 DIA	.234	.188	-.001	1203 E	1800	13 LB.

Part No. 1203

Part No. 2065

Part No. 1203

PART NO.	"X"	BD THICK	PART NO.	"X"	BD THICK
1710 C	.135	.094	1710 D	.165	.125

Part No. 1710

* DEPTH OF .104 DIA. IS .234 + 'X' DIM.

Part No. 1700

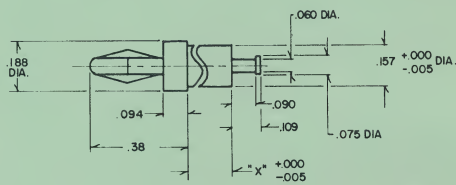
Part No. 1710

* DEPTH OF .170 DIA. IS .454 PLUS "X" DIM.

Part No. 1785

Part No. 1786

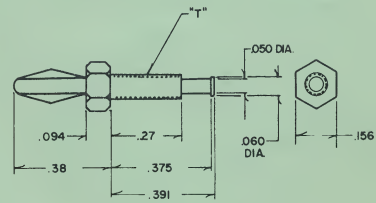
Plugs



PART NO.	"X"	BD. THICK.	REC. NOM. RECEPTACLE DIA.
1705 B	.105	.062	.104
1705 C	.135	.094	.104
1705 D	.165	.125	.104

MATES WITH U.S.E.CO. PARTS NO. 1700 & 1710.

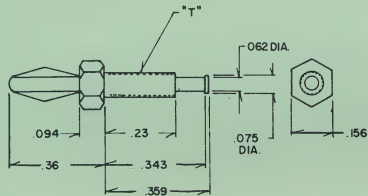
Part No. 1705



PART NO.	"T"	REC. NOM. RECEPTACLE DIA.
1715	2-56	.104

MATES WITH U.S.E.CO. PARTS NO. 1700 & 1710.

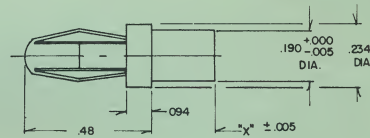
Part No. 1715



PART NO.	"T"	REC. NOM. RECEPTACLE DIA.
1716	4-40	.104

MATES WITH U.S.E.CO. PARTS NO. 1700 & 1710.

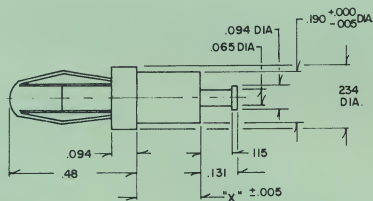
Part No. 1716



PART NO.	"X"	BD. THICK.	REC. NOM. RECEPTACLE DIA.
1780 E	.195	.156	.170
1780 F	.230	.188	.170
1780 G	.255	.218	.170

MATES WITH U.S.E.CO. PARTS NO. 1701, 1787, 1785 & 1786.

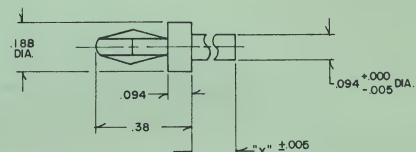
Part No. 1780



PART NO.	"X"	BD. THICK.	REC. NOM. RECEPTACLE DIA.
1782 E	.195	.156	.170
1782 F	.230	.188	.170
1782 G	.255	.218	.170

MATES WITH U.S.E.CO. PARTS NO. 1700 & 1710.

Part No. 1782



PART NO.	X	BD. THICK.	REC. NOM. RECEPTACLE DIA.
1781 B	.094	.062	.104
1781 C	.125	.094	.104
1781 D	.156	.125	.104

MATES WITH U.S.E.CO. PARTS NO. 1701, 1787, 1785 & 1786.

Part No. 1781

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010, .XX ± .016 BEFORE PLATING.

U S E C O

Technical drawing of a shaft assembly. The shaft has a total length of 1.25 inches. The left end has a diameter of $\varnothing .30$ inches with a tolerance of $\pm .005$ inches. The main body of the shaft has a diameter of $\varnothing .250$ inches with a tolerance of $\pm .005$ inches. The right end has a diameter of $\varnothing .250$ inches with a tolerance of $\pm .005$ inches. The shaft is threaded with a $\varnothing .52$ inch diameter thread, 60 degrees included angle, tapering to $\varnothing .64$ inch diameter at both ends. The shaft is labeled "MED STRAIGHT KNURL". The drawing includes a section line and a note: "1.39 DIA $\pm .005$ DIA". The right end of the shaft is labeled "D₁ D₂ $\pm .000$ $\pm .005$ ".

ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2710	.094 DIA	.531	.500	+ .000 094 - .002		PRESS FIT	10 OZ.

[illegible]

ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2720 A	.114 DIA.	.075	.031	+ .003	2720	800 LBS.	
2720 B		.105	.062	.116			
2720 C		.135	.094	-.001			
2720 D		.165	.125				

Technical drawing of a shaft assembly. The drawing shows a shaft with a diameter of .198 DIA. at the left end, a diameter of .198 at the main body, and a diameter of .145 DIA. at the right end. The shaft is shown in cross-section with a keyway. Dimensions and tolerances are indicated: .328, .312, .203, .198, .145 DIA., .115 DIA., .045, .000, -.005, .055 DIA. THRU. TAPER .061 / IN. / DIA. TO .064 DIA., and .005.

ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BO THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2730 A	114 DIA.	075	.031	+ .003	2730	800 LBS.	
2730 B		105	.062	- .001			
2730 C		135	.094				
2730 D		165	.125				

[illegible]

ORDER BY PART NO.	D NOM	L NOM.	RECOMMENDATIONS				APPROX. WT/QOO
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2740 A	.079 DIA.	.075	.031	+ .003	2740	600 LBS.	8 07
2740 B		.105	.062	.081			
2740 C		.135	.094	-.001			
2740 D		.165	.125				

Technical drawing of a shaft assembly with dimensions and tolerances:

- Overall length: 1.09 DIA.
- Left end diameter: .156 DIA.
- First step diameter: $\text{"D" } \begin{smallmatrix} +.000 \\ -.005 \end{smallmatrix}$
- Step diameter: .045
- Second step diameter: .328
- Third step diameter: .312
- Fourth step diameter: .203
- Step diameter: .188
- Step diameter: .078 DIA.
- Step diameter: .031
- Step diameter: $\text{"L" } \begin{smallmatrix} \pm .005 \end{smallmatrix}$
- Step diameter: .055 DIA. THRU.
- Left end taper: TAPER .061 IN/DIA TO .067 DIA.

ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2750 A	Ø79 DIA.	.075	.031	+ .003	2750	600 LBS	9 OZ
2750 B		.105	.062	Ø81			
2750 C		.135	.094	-.001			
2750 D		.165	.125				

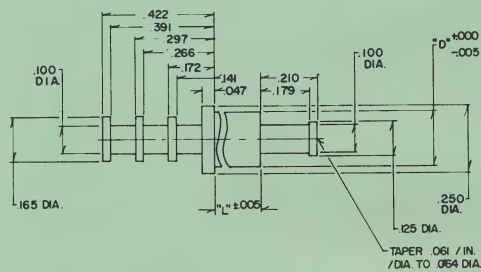
Technical drawing of a shaft assembly with dimensions and tolerances:

- Overall length: 422
- Distance from left end to first step: 391
- Distance from left end to second step: 297
- Distance from left end to third step: 266
- Distance from left end to fourth step: 172
- Distance from left end to fifth step: 141
- Distance from left end to sixth step: .047
- Distance from left end to seventh step: .210
- Distance from left end to eighth step: 100 DIA.
- Distance from left end to ninth step: 250 DIA.
- Distance from left end to tenth step: 100 DIA.
- Distance from left end to eleventh step: 250 DIA.
- Distance from left end to twelfth step: 100 DIA.
- Distance from left end to thirteenth step: 250 DIA.
- Distance from left end to fourteenth step: 100 DIA.
- Distance from left end to fifteenth step: 250 DIA.
- Distance from left end to sixteenth step: 100 DIA.
- Distance from left end to seventeenth step: 250 DIA.
- Distance from left end to eighteenth step: 100 DIA.
- Distance from left end to nineteenth step: 250 DIA.
- Distance from left end to twentieth step: 100 DIA.
- Distance from left end to twenty-first step: 250 DIA.
- Distance from left end to twenty-second step: 100 DIA.
- Distance from left end to twenty-third step: 250 DIA.
- Distance from left end to twenty-fourth step: 100 DIA.
- Distance from left end to twenty-fifth step: 250 DIA.
- Distance from left end to twenty-sixth step: 100 DIA.
- Distance from left end to twenty-seventh step: 250 DIA.
- Distance from left end to twenty-eighth step: 100 DIA.
- Distance from left end to twenty-ninth step: 250 DIA.
- Distance from left end to thirtieth step: 100 DIA.
- Distance from left end to thirty-first step: 250 DIA.
- Distance from left end to thirty-second step: 100 DIA.
- Distance from left end to thirty-third step: 250 DIA.
- Distance from left end to thirty-fourth step: 100 DIA.
- Distance from left end to thirty-fifth step: 250 DIA.
- Distance from left end to thirty-sixth step: 100 DIA.
- Distance from left end to thirty-seventh step: 250 DIA.
- Distance from left end to thirty-eighth step: 100 DIA.
- Distance from left end to thirty-ninth step: 250 DIA.
- Distance from left end to fortieth step: 100 DIA.
- Distance from left end to forty-first step: 250 DIA.
- Distance from left end to forty-second step: 100 DIA.
- Distance from left end to forty-third step: 250 DIA.
- Distance from left end to forty-fourth step: 100 DIA.
- Distance from left end to forty-fifth step: 250 DIA.
- Distance from left end to forty-sixth step: 100 DIA.
- Distance from left end to forty-seventh step: 250 DIA.
- Distance from left end to forty-eighth step: 100 DIA.
- Distance from left end to forty-ninth step: 250 DIA.
- Distance from left end to fiftieth step: 100 DIA.
- Distance from left end to fifty-first step: 250 DIA.
- Distance from left end to fifty-second step: 100 DIA.
- Distance from left end to fifty-third step: 250 DIA.
- Distance from left end to fifty-fourth step: 100 DIA.
- Distance from left end to fifty-fifth step: 250 DIA.
- Distance from left end to fifty-sixth step: 100 DIA.
- Distance from left end to fifty-seventh step: 250 DIA.
- Distance from left end to fifty-eighth step: 100 DIA.
- Distance from left end to fifty-ninth step: 250 DIA.
- Distance from left end to sixtieth step: 100 DIA.
- Distance from left end to sixty-first step: 250 DIA.
- Distance from left end to sixty-second step: 100 DIA.
- Distance from left end to sixty-third step: 250 DIA.
- Distance from left end to sixty-fourth step: 100 DIA.
- Distance from left end to sixty-fifth step: 250 DIA.
- Distance from left end to sixty-sixth step: 100 DIA.
- Distance from left end to sixty-seventh step: 250 DIA.
- Distance from left end to sixty-eighth step: 100 DIA.
- Distance from left end to sixty-ninth step: 250 DIA.
- Distance from left end to seventieth step: 100 DIA.
- Distance from left end to seventy-first step: 250 DIA.
- Distance from left end to seventy-second step: 100 DIA.
- Distance from left end to seventy-third step: 250 DIA.
- Distance from left end to seventy-fourth step: 100 DIA.
- Distance from left end to seventy-fifth step: 250 DIA.
- Distance from left end to seventy-sixth step: 100 DIA.
- Distance from left end to seventy-seventh step: 250 DIA.
- Distance from left end to seventy-eighth step: 100 DIA.
- Distance from left end to seventy-ninth step: 250 DIA.
- Distance from left end to eightieth step: 100 DIA.
- Distance from left end to eighty-first step: 250 DIA.
- Distance from left end to eighty-second step: 100 DIA.
- Distance from left end to eighty-third step: 250 DIA.
- Distance from left end to eighty-fourth step: 100 DIA.
- Distance from left end to eighty-fifth step: 250 DIA.
- Distance from left end to eighty-sixth step: 100 DIA.
- Distance from left end to eighty-seventh step: 250 DIA.
- Distance from left end to eighty-eighth step: 100 DIA.
- Distance from left end to eighty-ninth step: 250 DIA.
- Distance from left end to ninetieth step: 100 DIA.
- Distance from left end to ninety-first step: 250 DIA.
- Distance from left end to ninety-second step: 100 DIA.
- Distance from left end to ninety-third step: 250 DIA.
- Distance from left end to ninety-fourth step: 100 DIA.
- Distance from left end to ninety-fifth step: 250 DIA.
- Distance from left end to ninety-sixth step: 100 DIA.
- Distance from left end to ninety-seventh step: 250 DIA.
- Distance from left end to ninety-eighth step: 100 DIA.
- Distance from left end to ninety-ninth step: 250 DIA.
- Distance from left end to one hundredth step: 100 DIA.

ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2760 B	204 DIA.	105	.062	+ .003	2760	1200 LBS.	3 LB 5 OZ.
2760 C		135	.094	-.001			
2760 D		165	.125				

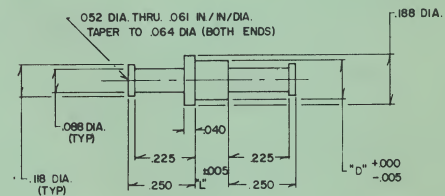
47

Receptacles



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2761 B	204 DIA.	105	.062	.206			
2761 C		135	.094				
2761 D		165	.125				

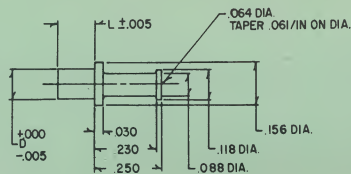
Part No. 2761



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2762 A		.062	.031				
2762 B		.094	.062				
2762 C		.124	.094				
2762 D	.145 DIA.	.156	.125				

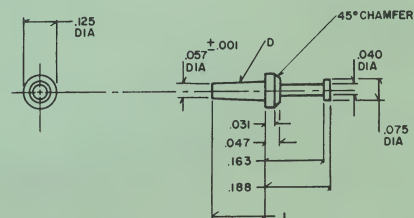
Part No. 2762

Pins



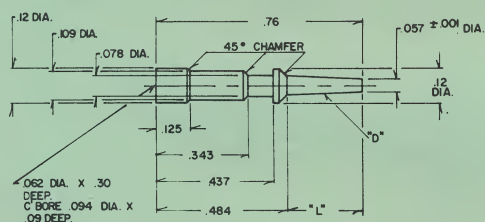
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2764 A		.078	.031				
2764 B	.112	.109	.062				
2764 C		.141	.094				
2764 D		.172	.125				

Part No. 2764



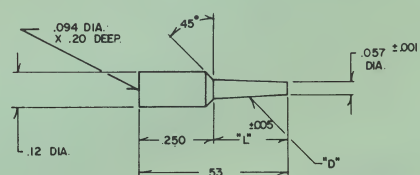
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2770	TAPER .061 IN. PER IN. ON DIA.	.205					

Part No. 2770



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2775	TAPER .061 IN. PER IN. ON DIA.	.281					

Part No. 2775



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
2776	TAPER .061 IN. PER IN. ON DIA.	.281					

Part No. 2776

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING -1
TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

U S E C O

Technical drawing of a shaft-hub assembly. The main view is a cross-section showing a shaft with a diameter of $\varnothing 10 \pm 0.02$ and a hub with a bore diameter of $\varnothing 109$. The hub has a total length of 180 and a section length of 141. The shaft has a length of 109. The hole in the hub is a hole-in-hole with a diameter of $\varnothing 141 \pm 0.005$. A detail view on the right shows the hole with a diameter of $\varnothing 141 \pm 0.005$ and a depth of 188. The detail view also shows a hole with a diameter of $\varnothing 67$ and a depth of 188. The hole is labeled as $\varnothing 67$ DRILL 1 (H0.5) CSK 90° $\varnothing 10$ DIA.

DASH NUMBER	SHANK LENGTH L ± .003	MTG BOARD THICKNESS
-1	.078	1/32
-2	.109	1/16
-3	.141	3/32
-4	.172	1/8

[illegible]

DASH NUMBER	SHANK LENGTH L	MTG BOARD THICKNESS
-1	.075	1/32
-2	.105	1/16
-3	.135	3/32
-4	.165	1/8

[illegible]

DASH NUMBER	SHANK LENGTH L $\pm .003$	MTG BOARD THICKNESS	X
-2	.094	1/16	.409
-3	.125	3/32	.440
-4	.156	1/8	.471

Technical drawing of a shaft assembly. The drawing includes a cross-sectional view on the left and a side view on the right. The cross-section shows a central hole with a diameter of .076 DRILL (NO. 48) and a depth of .034 DEEP MAX, except for a .060 DEEP MAX. The side view shows the shaft with various dimensions: a total length of .360, a distance of .202 from the left end to the start of the hole, a hole diameter of .065, a hole depth of .016 MAX, a distance of .031 TYP from the hole to the right end, and a distance of .145 ±.002, .005 from the right end to the start of the hole. The shaft has a diameter of .065 and a length of .046. The drawing is labeled with dimensions and tolerances.

DASH NUMBER	SHANK LENGTH L±.003	MTG. BOARD THICKNESS
-1	.075	1/32
-2	.109	1/16
-3	.141	3/32
-4	.172	1/8
-5	.195	5/32
-6	.230	3/16
-8	.295	1/4

[illegible]

DASH NUMBER	SHANK LENGTH L $\pm .003$	MTG BOARD THICKNESS
-2	.109	1/16
-3	.141	3/32
-4	.172	1/8

DASH NUMBER	SHANK LENGTH L $\pm .003$	MTG BOARD THICKNESS	X
-1	.062	1/32	.187
-2	.094	1/16	.219
-3	.125	3/32	.250
-4	.156	1/8	.281

Turret

MIL-T-55155

Configurations, materials, platings and specifications conform to requirements of MIL-T-55155.

SPECIFICATIONS

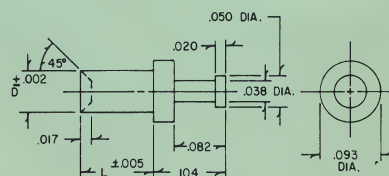
Terminals

Material: Brass, 1/2 hard, composition 22, per QQ-B-626

Finish: Standard -4 (0.0005 Solder Plate)

Optional at additional cost -10 (0.00003 gold)

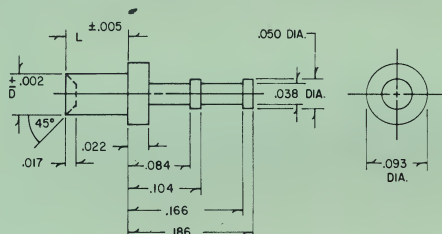
See Page 82 for ordering information and cross reference



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4520					
4520 B		.082	.062	+ .003	4520
4520 C	.072 DIA.	.113	.094	.076	
4520 D		.145	.125	-.001	

MIL-T-55155/11-1, -2, & -3

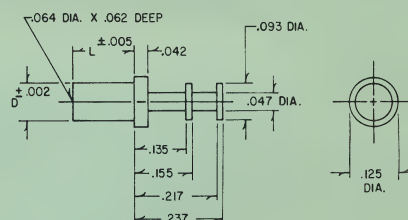
USECO Part No. 4520



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4521 B		.082	.062	+ .003	4521
4521 C	.072 DIA.	.113	.094	.076	
4521 D		.145	.125	-.001	

MIL-T-55155/12-1,-2,-3.

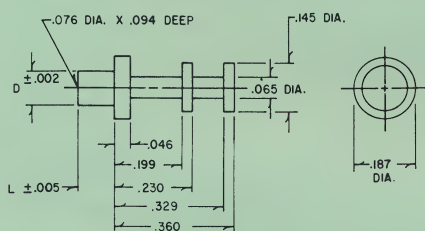
USECO Part No. 4521



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4522 B		.105	.062	+ .003	4522
4522 C	.090 DIA.	.135	.094	.094	
4522 D		.165	.125	-.001	

MIL-T-55155/12-4,-5,-6.

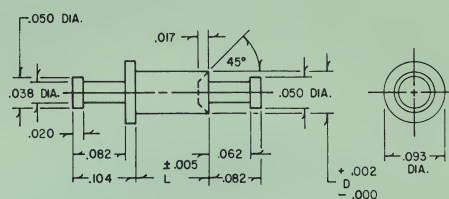
USECO Part No. 4522



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4523 B		.109	.062	+ .003	4523
4523 C	.112 DIA.	.141	.094	.116	
4523 D		.172	.125	-.001	

MIL-T-55155/12-7,-8,-9.

USECO Part No. 4523



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4524 B		.082	.062	+ .003	4524
4524 C	.072 DIA.	.113	.094	.076	
4524 D		.145	.125	-.001	

MIL-T-55155/13-1,-2,-3.

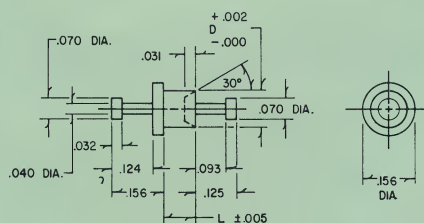
USECO Part No. 4524

SEE PAGE 82 FOR ORDERING INFORMATION AND CROSS REFERENCE

Mil-T-55155 Terminals



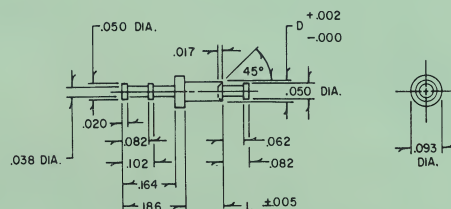
Feed-Thru



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4525 B	.116 DIA.	.105	.062	+ .003	4525
4525 C		.135	.094	.120	
4525 D		.165	.125	-.001	

MIL-T-55155/13-4, -5, -6.

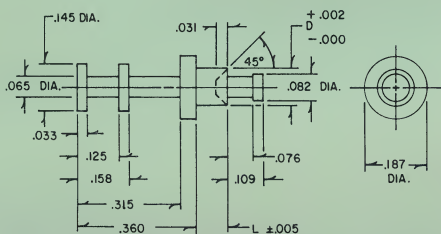
USECO Part No. 4525



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4526 B	.072 DIA.	.082	.062	+ .003	4526
4526 C		.113	.094	.076	
4526 D		.145	.125	-.001	

MIL-T-55155/14-1, -2, -3.

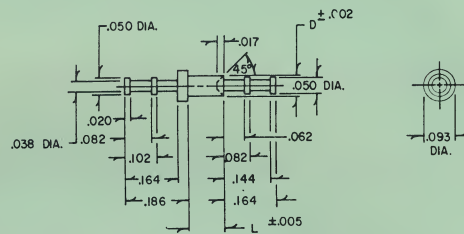
USECO Part No. 4526



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4527 B	.114 DIA.	.105	.062	+ .003	4527
4527 C		.135	.094	.118	
4527 D		.165	.125	-.001	

MIL-T-55155/14-4, -5, -6.

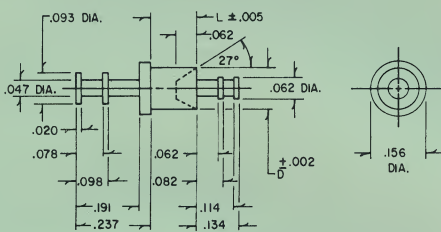
USECO Part No. 4527



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4528 B	.072 DIA.	.082	.062	+ .003	4528
4528 C		.113	.094	.076	
4528 D		.145	.125	-.001	

MIL-T-55155/15-1, -2, -3.

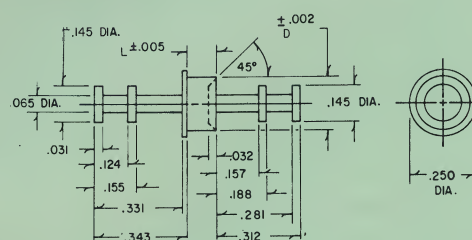
USECO Part No. 4528



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4529 B	.125 DIA.	.105	.062	+ .003	4529
4529 C		.135	.094	.129	
4529 D		.165	.125	-.001	

MIL-T-55155/15-4, -5, -6.

USECO Part No. 4529



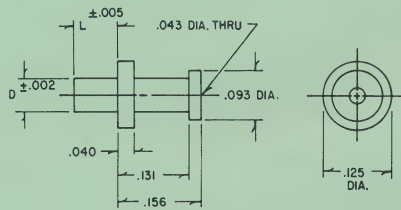
ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4530 B	.202 DIA.	.093	.062	+ .003	4530
4530 C		.125	.094	.206	
4530 D		.156	.125	-.001	

MIL-T-55155/15-7, -8, -9.

USECO Part No. 4530

SEE PAGE 82 FOR ORDERING INFORMATION AND CROSS REFERENCE

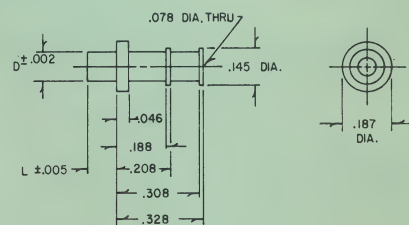
Hollow



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4531 B	.062 DIA.	.084	.062	+.003	4531
4531 C		.115	.094	.066	
4531 D		.147	.125	-.001	

MIL-T-55155/16-1, -2 & -3

USECO Part No. 4531



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL
4532 B	.112 DIA.	.109	.062	+.003	4532
4532 C		.141	.094	.116	
4532 D		.172	.125	-.001	

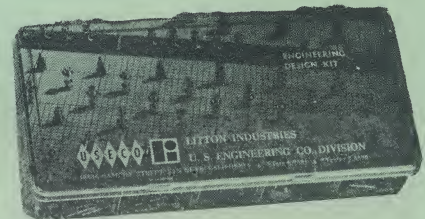
MIL-T-55155/17-1, -2 & -3

USECO Part No. 4532

ENGINEERING DESIGN KITS

Complete engineering design kits for insulated terminals.

USECO Engineering design kits include a representative quantity of Standard USECO parts for prototype component evaluation or lab usage. Various mounting configurations of external and internal threaded bases are included in the 14-1, 14-2 and 14-3 kits. The K-44 kit includes a special hand tool for insertion of the unique USECO "Loc-Fit" insulated terminal. All USECO Engineering design kits are available from authorized USECO distributors. The handy plastic packaging insures long shelf-life of parts.



KIT NUMBER	DESCRIPTION	PARTS INCLUDED			REMARKS
44-1	"LOC-FIT"—A representative quantity of "Loc-Fit" terminals for component evaluation or lab use.	4430-50 pcs) 4435-50 pcs) 4440-50 pcs) Teflon grommets, 4441-50 pcs) terminals and one 4442-50 pcs) manual swaging tool 4443-50 pcs) included. 4444-25 pcs) 4445-25 pcs)			All terminals and grommets interchangeable. Mounting hole diameter .146".
14-1 14-2 14-3	14-1—Hi-Alumina insulated standoff terminals 14-2—Teflon insulated standoff terminals 14-3—Plastic insulated standoff terminals (Phenolic, Diallyl Phthalate, Alkyd)	Hi-Alumina 1460-20 pcs 1461-20 pcs 1465-20 pcs 1466-20 pcs 1480-20 pcs 1481-20 pcs 1487-20 pcs 1485-20 pcs	Teflon 1450-20 pcs 1455-20 pcs 1470-20 pcs 1475-20 pcs 1490-20 pcs 1495-20 pcs 1431-5 pcs 1432-5 pcs	Plastic 1400-20 pcs 1401-20 pcs 1417-20 pcs 1418-20 pcs 1425-20 pcs 1426-20 pcs 1430-20 pcs 1433-20 pcs	Various mounting Configurations of external and internal base included. External—6-32, 2-56, 4-40 Internal—6-32, 2-56, 4-40

**NEW MIL-T-55155
TERMINALS
ON PAGE 60**

SECTION E

WELDABLE TERMINALS,* UNIJAK CONNECTORS, PRINTED CIRCUIT TERMINALS, SOLDER POSTS AND EYELETS

WELDABLE TERMINALS*

USECO has contributed a notable "first" by producing microminiature weldable terminals. These terminals upgrade reliability, reduce rejection and failures, and give automatic protection during assembly to tiny components of micromodules and other miniaturized assemblies.

Available in two basic configurations, USECO weldable terminals bring about faster, as well as safer, assembly. Leads are slipped through the terminals and resistance-welded into place. The common problem of heat transfer to the component during soldering is completely eliminated. Weldable terminals further boost module reliability by affording a permanent connection not subject to failure or malfunction resulting from softened, cracked, or improperly formed solder joints.

UNIJAK CONNECTORS

Available in a broad line of standard board types or in specially designed units, USECO miniature printed circuit connectors permit the mounting of transistors, diodes, transformers, and all other miniature components and modules without soldering or welding. A component lead inserted into one of these individual jacks is retained firmly by an internal beryllium copper spring, but can be withdrawn without damage to lead, component, or connector.

Besides effecting a reduction in assembly time, the use of UNIJAK connectors increases reliability, reduces component damage and rejections, and permits easy removal and replacement for module repair purposes.

PRINTED CIRCUIT TERMINALS

USECO floating printed circuit terminals, applied correctly, eliminate the basic trouble caused by using standard terminals on printed circuits: that is, the lifting of conductor lines—during soldering—because of the stresses previously produced between base material and the circuit copper during terminal swaging.

This lifting "prevention" has been proved with USECO terminals even under continued application of heat equalling that of an inactive iron whose temperature could reach 670°F if uncontrolled. These funnel-shaped terminals not only relieve stress at the contact point of terminal, copper, and base material but also provide a larger bonding area for the solder.

SOLDER POSTS

USECO Solder Posts permit vertical mounting of circuit and terminal board components with a resultant increase in packaging density. After being swaged or soldered in place the posts serve as the electrical and mechanical junction for two or more components. Insulated or non-insulated types available. Insulated types feature a firmly bonded protective layer of Teflon.

PRECISION-MACHINED PRINTED CIRCUIT EYELETS

USECO high-quality machined eyelets are recommended for all printed circuit applications. Installed with USECO eyeletting tools, they seat with proper pressure on the circuit pad areas and increase connection reliability.

**Patent Pending*

Custom Printed Circuit Components and Platings on Special Order

Complete Plating Specifications Listed on Page 84

Weld Schedule

WELDABLE TERMINALS*

USECO Weldable Terminals offer several unique features:

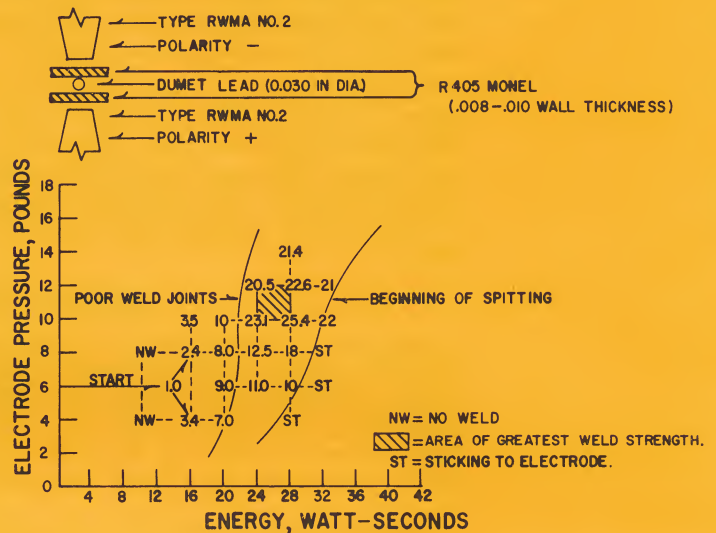
- Increased reliability over solder connections.
- All terminal designs are made of the same material. (R-405 monel)
- Uniform wall thickness which allows greater ease of establishing weld schedules.
- Can be used in standard printed circuit boards and plated through boards without increasing size of "package."

A typical isostrength diagram of a weldable terminal is shown at right. This diagram establishes pressure and energy requirements for Dumet lead material 0.030 diameter when resistance welded to a R-405 monel terminal. Use of the isostrength diagram establishes an area of optimum weld strength for the materials being welded.

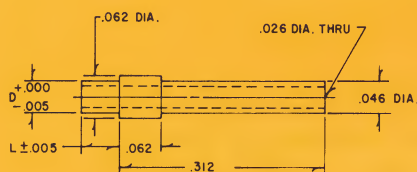
Further engineering and weld information is available on request.

* Patent Pending

ISOSTRENGTH DIAGRAM OF A WELDABLE TERMINAL

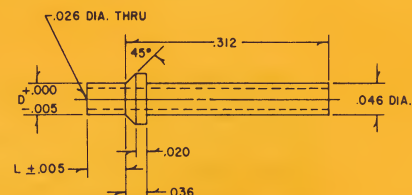


Weldable Terminals



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT./1000
7200 AA	.046 DIA.	.037	.016	+.003	7200		
7200 A		.053	.031	.048			
7200 B		.084	.062	-.001 DIA.			
7200 C		.115	.094				
7200 D		.147	.125				

Part No. 7200

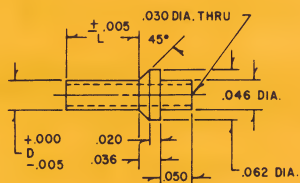


ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	APPROX. WT./1000
7201 AA	.046 DIA.	.037	.016	+.003	7201		
7201 A		.053	.031	.048			
7201 B		.084	.062	-.001 DIA.			
7201 C		.115	.094				
7201 D		.147	.125				

Part No. 7201

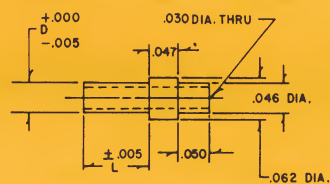
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
MATERIAL (STANDARD); R 405 MONEL
TOLERANCE (STANDARD); .XXX ± .010

Weldable Terminals



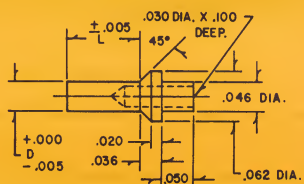
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
7210 A	.046 DIA.	.062	.031	+.003			
7210 B		.094	.052				
7210 C		.125	.094	.048			
7210 D		.156	.125	-.001 DIA.	7210		

Part No. 7210



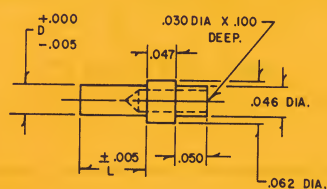
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
7211 AA	.046 DIA.	.037	.016				
7211 A		.053	.031	+.003			
7211 B		.084	.052	.048	7211		
7211 C		.115	.094	-.001 DIA.			
7211 D		.147	.125				

Part No. 7211



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
7220 A	.046 DIA.	.062	.031	+.003			
7220 B		.094	.052				
7220 C		.125	.094	.048			
7220 D		.156	.125	-.001 DIA.	7220		

Part No. 7220



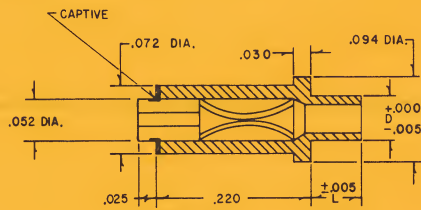
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT./1000
			BD. THICK	MTG. HOLE	SWAGE TOOL	SWAGE PRESS.	
7221 AA	.046 DIA.	.037	.016				
7221 A		.053	.031	+.003			
7221 B		.084	.052	.048	7221		
7221 C		.115	.094	-.001 DIA.			
7221 D		.147	.125				

Part No. 7221

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
MATERIAL (STANDARD); R 405 MONEL
TOLERANCE (STANDARD); .XXX ± .010

Sockets

Swage Type

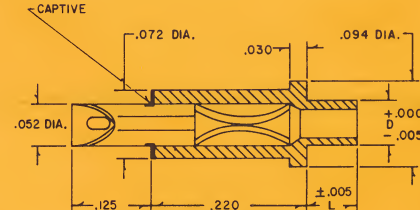


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7701 B	.062	.084	.062				
7701 C	DIA.	.115	.063	+.003 -.001	7701		

MATES WITH 7710 & 7711.

Part No. 7701

Swage Type

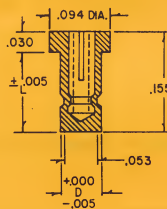


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7702 B	.062	.084	.062				
7702 C	DIA.	.115	.063	+.003 -.001	7702		

MATES WITH 7710 & 7711.

Part No. 7702

Mold or Dip Solder Type

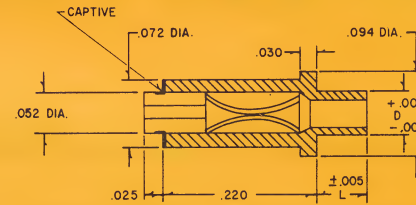


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7705 B	.060	.125	.062				
	DIA.			+.003 +.062 -.001	7705		

MATES WITH 7712 & 7713.

Part No. 7705

Funnel Type

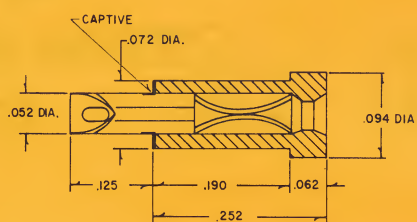


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7706 B	.062	.092	.062				
7706 C	DIA.	.123	.094	+.003 -.001	7706		

MATES WITH 7710 & 7711.

Part No. 7706

Press Fit Type

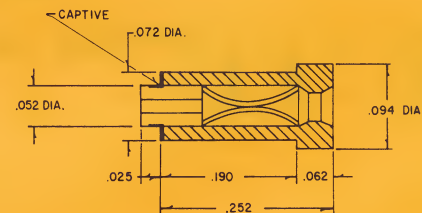


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7708 C							

MATES WITH 7712 & 7713.

Part No. 7708

Press Fit Type



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7709 C							

MATES WITH 7712 & 7713.

Part No. 7709

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

STANDARD PLATING—7

MATERIAL (STANDARD); HOUSING BRASS 1/2 HARD COMPOSITION 22 PER QQ-B-626

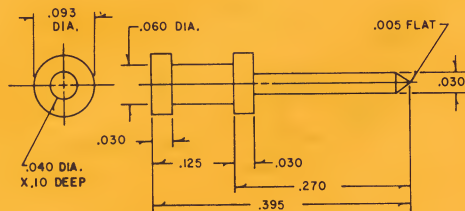
SPRING BERYLLIUM COPPER

TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING

UNI-JAK Connectors

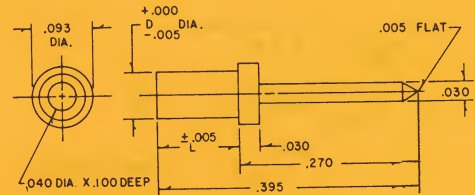


Pins



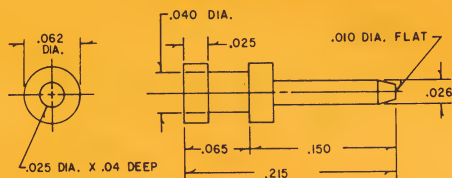
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7710							

Part No. 7710



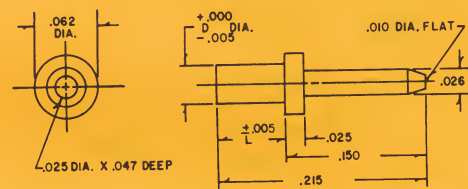
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7711	.060	.125	.094				

Part No. 7711



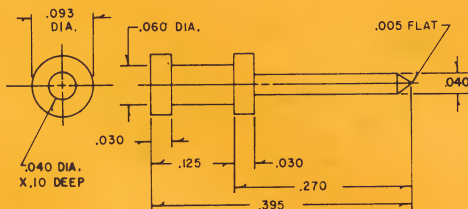
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7712							

Part No. 7712



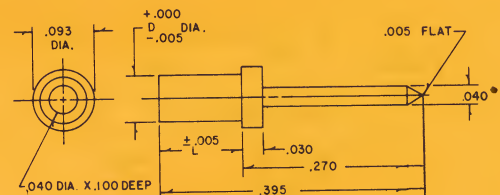
ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7713	.040	.065	.031				

Part No. 7713



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7714							

Part No. 7714



ORDER BY PART NO.	D NOM.	L NOM.	RECOMMENDATIONS				APPROX. WT/1000
			BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	
7715	.060	.125	.094				

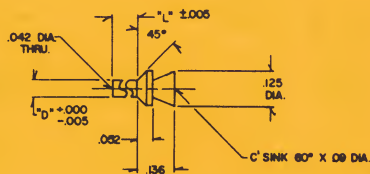
Part No. 7715

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

STANDARD PLATING —7

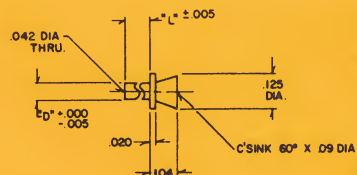
MATERIAL (STANDARD); BRASS 1/2 HARD COMPOSITION 22 PER QQ-B-626

TOLERANCE (STANDARD); .XXX ± .010



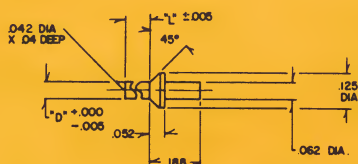
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7000 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7000		
7000 B		.094	.062				
7000 C		.125	.094				
7000 D		.156	.125				

Part No. 7000



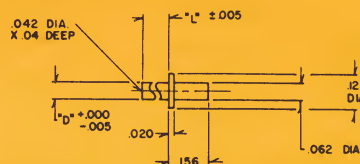
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7001 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7001		
7001 B		.094	.062				
7001 C		.125	.094				
7001 D		.156	.125				

Part No. 7001



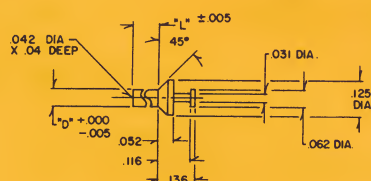
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7010 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7010		
7010 B		.094	.062				
7010 C		.125	.094				
7010 D		.156	.125				

Part No. 7010



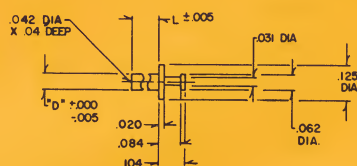
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7011 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7011		
7011 B		.094	.062				
7011 C		.125	.094				
7011 D		.156	.125				

Part No. 7011



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7020 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7020		
7020 B		.094	.062				
7020 C		.125	.094				
7020 D		.156	.125				

Part No. 7020

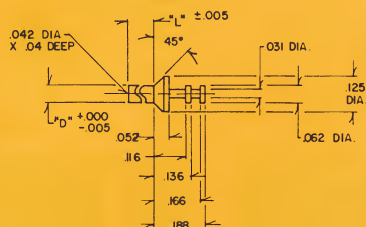


ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7021 A	.062 DIA.	.062	.031	.063 MIN. DIA.	7021		
7021 B		.094	.062				
7021 C		.125	.094				
7021 D		.156	.125				

Part No. 7021

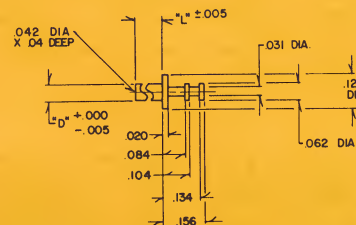
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
 STANDARD PLATING—7
 MATERIAL (STANDARD); BRASS 1/2H COMP22 PER QQ-B-626
 TOLERANCE (STANDARD); .XXX ± .010 BEFORE PLATING.

Printed Circuit Terminals and Solder Posts



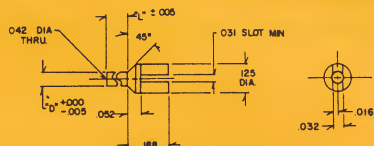
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7030 A	.062 DIA.	.062	.031				
7030 B		.094	.062				
7030 C		.125	.094	.063 MIN.	7030		
7030 D		.156	.125				

Part No. 7030



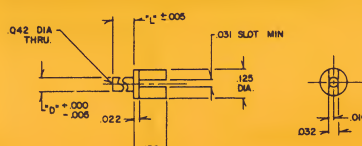
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7031 A	.062 DIA.	.062	.031				
7031 B		.094	.062				
7031 C		.125	.094	.063 MIN.	7031		
7031 D		.156	.125				

Part No. 7031



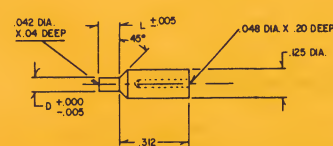
ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7040 A	.062 DIA.	.062	.031				
7040 B		.094	.062				
7040 C		.125	.094	.063 MIN.	7040		
7040 D		.156	.125				

Part No. 7040



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7041 A	.062 DIA.	.062	.031				
7041 B		.094	.062				
7041 C		.125	.094	.063 MIN.	7041		
7041 D		.156	.125				

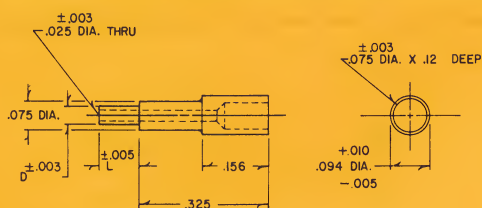
Part No. 7041



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7050 A	.062 DIA.	.062	.031				
7050 B		.094	.062				
7050 C		.125	.094	.063 MIN.	7050		
7050 D		.156	.125				

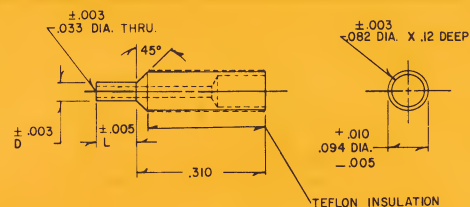
Part No. 7050

Solder Posts



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7051 A	.038 DIA.	.045	.016				
7051 B		.060	.032	+.003			
7051 C		.092	.062	.043			
7051 D		.132	.094	-.001 DIA.	7051		

Part No. 7051



ORDER BY PART NO.	D NOM.	L NOM.	BD THICK	MTG HOLE	SWAGE TOOL	SWAGE PRESS	APPROX. WT/1000
7052 A	.047 DIA.	.045	.016				
7052 B		.070	.032	+.003			
7052 C		.100	.062	.052			
7052 D		.132	.094	-.001 DIA.	7052		

Part No. 7052

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

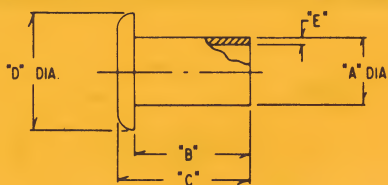
STANDARD PLATING—7

MATERIAL (STANDARD); BRASS 1/2 HARD COMPOSITION 22 PER QQ-B-626

OR WW-T-791 GRADE 2

TOLERANCE (STANDARD); .XXX ± .010

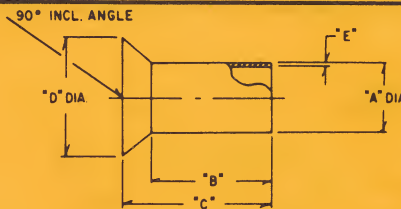
Eyelets



PART NO	A	B	C	D	E
7600 A	.030	.062	.072	.060	.005
7600 B	.030	.094	.103	.050	.005
7601 A	.047	.062	.071	.070	.006
7601 B	.047	.094	.103	.070	.006
7601 C	.047	.125	.134	.070	.006
7601 D	.047	.156	.165	.070	.006
7602 A	.058	.062	.078	.105	.007
7602 B	.058	.094	.109	.105	.007
7602 C	.058	.125	.141	.105	.007

PART NO	A	B	C	D	E
7602 D	.058	.156	.172	.105	.007
7603 A	.075	.062	.079	.125	.008
7603 B	.075	.094	.110	.125	.008
7603 C	.075	.125	.142	.125	.008
7603 D	.075	.156	.173	.125	.008
7604 A	.090	.062	.082	.150	.009
7604 B	.090	.094	.113	.150	.009
7604 C	.090	.125	.145	.150	.009
7604 D	.090	.156	.176	.150	.009

Part No. 7600



PART NO	A	B	C	D	E
7650 A	.030	.051	.071	.059	.006
7650 B	.030	.082	.102	.059	.006
7651 A	.047	.054	.077	.080	.006
7651 B	.047	.085	.108	.080	.006
7651 C	.047	.117	.140	.080	.006
7651 D	.047	.148	.171	.080	.006
7652 A	.058	.068	.105	.110	.007
7652 B	.058	.099	.136	.110	.007
7652 C	.058	.131	.168	.110	.007

PART NO	A	B	C	D	E
7652 D	.058	.162	.199	.110	.007
7653 A	.075	.064	.097	.125	.008
7653 B	.075	.095	.128	.125	.008
7653 C	.075	.127	.160	.125	.008
7653 D	.075	.158	.191	.125	.008
7654 A	.090	.068	.105	.156	.009
7654 B	.090	.099	.136	.156	.009
7654 C	.090	.131	.168	.156	.009
7654 D	.090	.162	.199	.156	.009

Part No. 7650

EYELET SPECIFICATIONS
 STANDARD PLATING -7
 TOLERANCE; .XXX ± .003
 NOTE: ALLOW APPROXIMATELY .030 EXTENSION THROUGH
 CIRCUIT BOARD FOR ROLLING OR FUNNELING OPERATION

MIL-T-55155

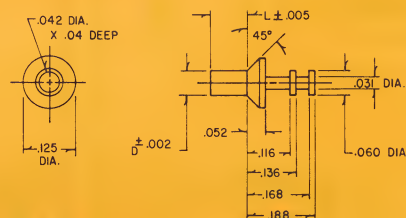
Configurations, materials, platings and specifications conform to requirements of MIL-T-55155.

SPECIFICATIONS

Terminals

Material: Brass, 1/2 hard, composition 22, per QQ-B-626
 Finish: Standard -4 (0.0005 Solder Plate)
 Optional at additional cost -10 (0.00003 gold)

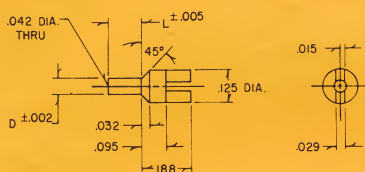
See Page 82 for ordering information and cross reference



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4570 A	.060 DIA.	.062	.031	.064 MIN. DIA.	4570
4570 B		.094	.062		
4570 C		.125	.094		
4570 D		.156	.125		

MIL-T-55155/23-1, -2, -3 & -4

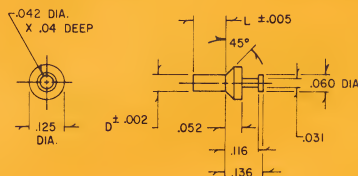
USECO Part No. 4570



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4571 A	.060 DIA.	.062	.031	.064 MIN. DIA.	4571
4571 B		.094	.062		
4571 C		.125	.094		
4571 D		.156	.125		

MIL-T-55155/24-1, -2, -3 & -4

USECO Part No. 4571



ORDER BY PART NO.	D NOM.	L NOM.	BD. THICK.	MTG. HOLE	SWAGE TOOL
4572 A	.060 DIA.	.062	.031	.064 MIN. DIA.	4572
4572 B		.094	.062		
4572 C		.125	.094		
4572 D		.156	.125		

MIL-T-55155/25-1, -2, -3 & -4

USECO Part No. 4572

SECTION F

TERMINAL BOARDS

Tabulated USECO terminal boards are designed for easy modification to suit individual needs. Three basic sizes are stocked in four dielectric materials, with or without terminals and/or scoring. Continuing product development assures the latest materials to solve your specific humidity, strength and heat requirements. Broad experience from template through assembly assures you full conformance to your custom terminal board specifications. Send detailed drawings for a prompt quotation.

SPECIFICATIONS

Tabulated Boards

Materials: Phenolic—MIL-P-3115
Melamine—MIL-P-15037B
Epoxy—MIL-P-18177A
Silicone—MIL-P-997B

Terminals: P/N 1300 or 2010 as indicated.
Standard Plating: —1

Resistor Boards

Materials: Melamine—MIL-P-15037, type GMG
Epoxy—MIL-P-18177A, type GEE

Terminals: P/N 2010 or 1392 as indicated.
Standard Plating: —1

Standoff: Brass ½ hard, composition 22, per QQ-B-626.
Standard Plating: —11

Ground Strap: Brass ½ hard, composition 22, per QQ-B-626.
Standard Plating: Solder dip per MIL-F-14072 M258.

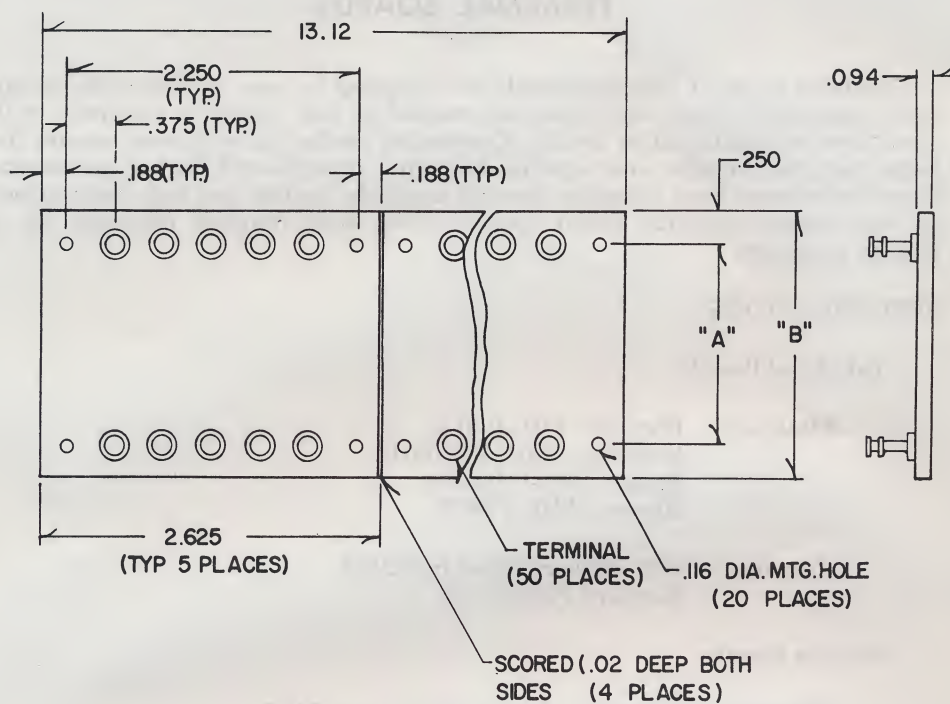
HOW TO ORDER: Terminal boards should be ordered by basic series number and letter designation for board width.

Example:

1100 A
Basic series number 1.5 inch width

Custom Terminal Boards on Special Order

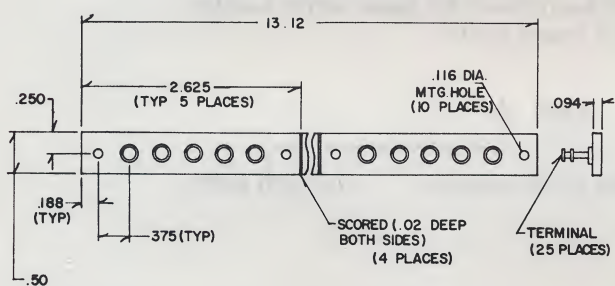
Phenolic



PART NO.	"A"	"B"	PART NO.	"A"	"B"
1100 A	1.000	1.50	1100 B	1.500	2.00
1100 C	2.000	2.50	1100 D	2.500	3.00

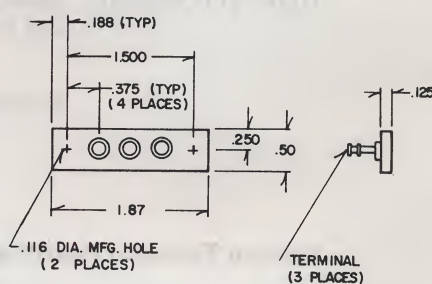
SEE PART NO. 8001 FOR TABULATED VARIATIONS.

Part No. 1100



SEE PART NO. 8002 FOR TABULATED VARIATIONS.

Part No. 1110



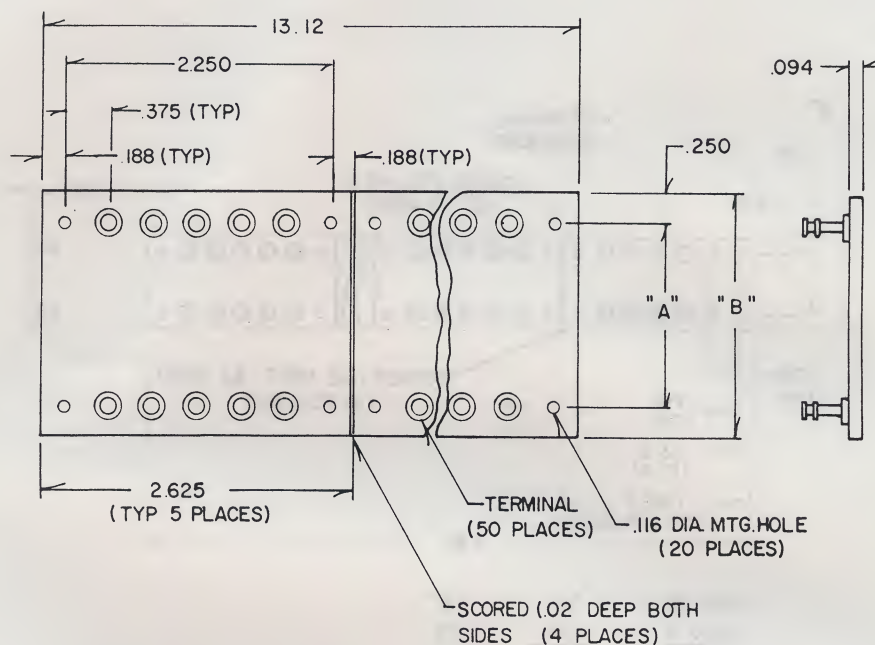
Part No. DEL 1110

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
 MATERIAL: BOARD—PHENOLIC SHEET, XXX, TY. MIL-P-3115.
 TERMINAL—BRASS, ½ HARD, COMP. 22, QQ-B-626.
 TOLERANCE: .XXX ± .010, .XX ± .016.
 TERMINAL (STANDARD); 1300.

Terminal Boards



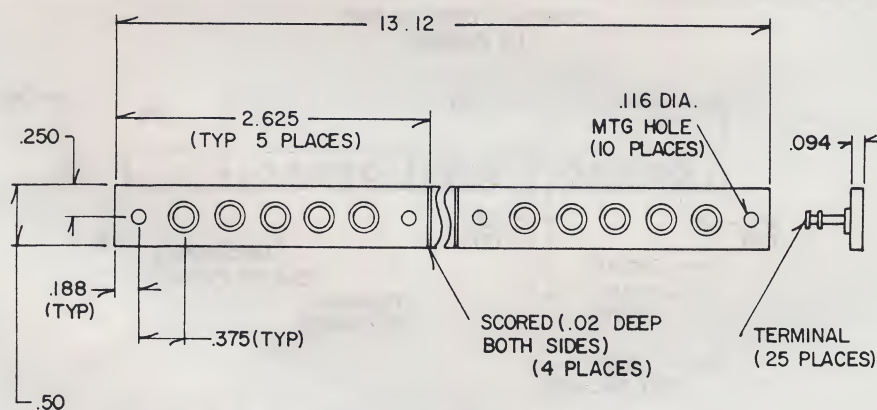
Epoxy



PART NO.	"A"	"B"	PART NO.	"A"	"B"
1102 A	1.000	1.50	1102 B	1.500	2.00
1102 C	2.000	2.50	1102 D	2.500	3.00

SEE PART NO 8001 FOR TABULATED VARIATIONS.

Part No. 1102



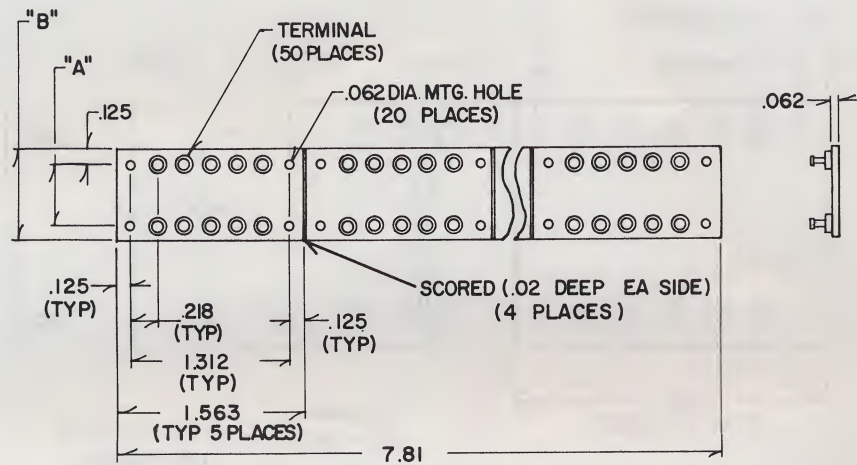
SEE PART NO. 8002 FOR TABULATED VARIATIONS.

Part No. 1112

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

MATERIAL: BOARD—EPOXY SHEET, TYPE GEE, PER MIL-P-18177A.
 TERMINAL—BRASS, 1/2 HARD, COMP. 22, QQ-B-626.
 TOLERANCE: .XXX ± .010, .XX ± .016.
 TERMINAL (STANDARD); 1300.

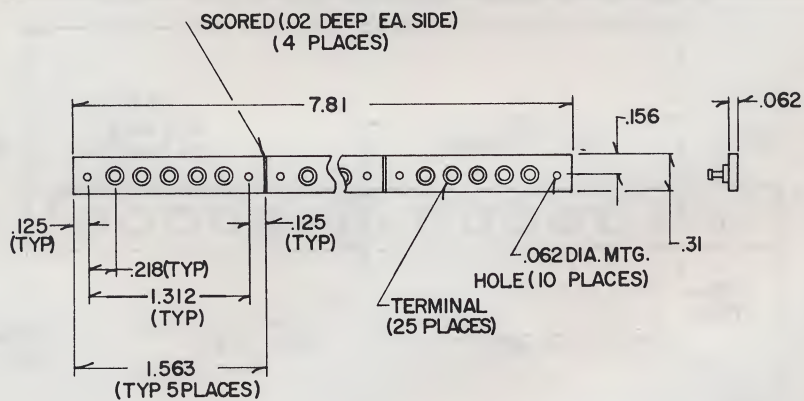
Phenolic



PART NO.	"A"	"B"
2200 B	.500	.75
2200 C	.750	1.00

SEE PART NO. 8003 FOR TABULATED VARIATIONS.

Part No. 2200



SEE PART NO. 8004 FOR TABULATED VARIATIONS.

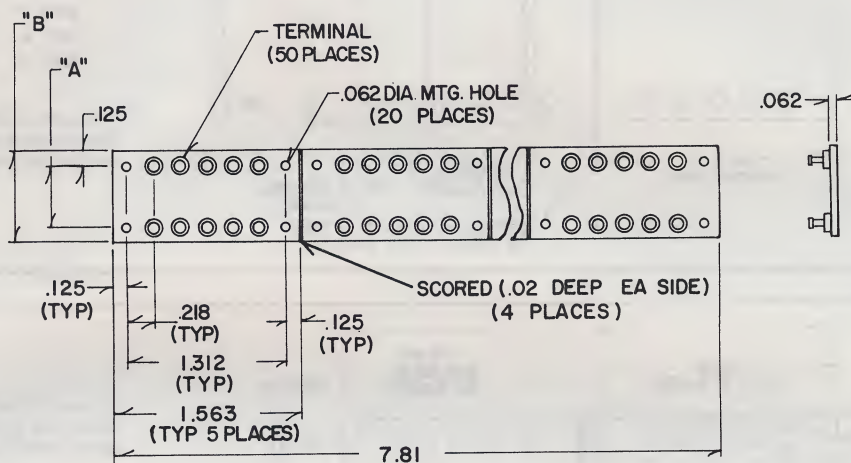
Part No. 2210

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
 MATERIAL: BOARD—PHENOLIC SHEET, XXX, TY. MIL-P-3115.
 TERMINAL—BRASS, 1/2 HARD, COMP. 22, QQ-B-626.
 TOLERANCE: .XXX ± .010, .XX ± .016.
 TERMINAL (STANDARD); 2010.

Terminal Boards



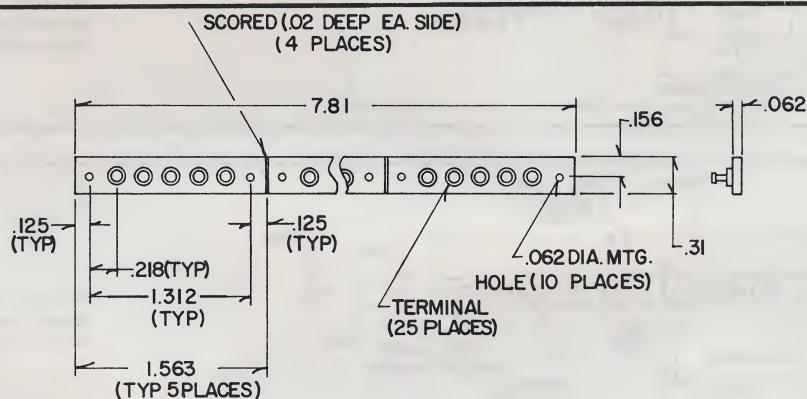
Epoxy



PART NO.	"A"	"B"
2202 B	.500	.75
2202 C	.750	1.00

SEE PART NO. 8003 FOR TABULATED VARIATIONS.

Part No. 2202



SEE PART NO. 8004 FOR TABULATED VARIATIONS.

Part No. 2212

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

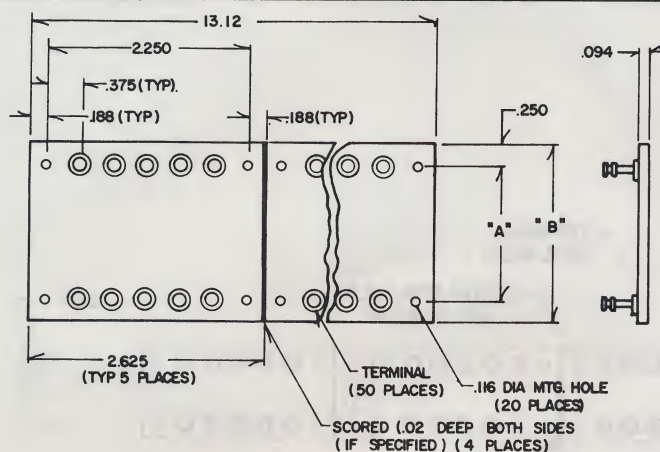
MATERIAL: BOARD—EPOXY SHEET, TYPE GEE, PER MIL-P-18177A.

TERMINAL—BRASS, 1/2 HARD, COMP. 22, QQ-B-626.

TOLERANCE: .XXX ± .010, .XX ± .016.

TERMINAL (STANDARD); 2010.

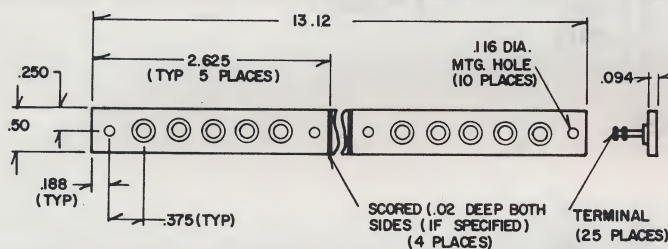
Tabulated



PART NO.	"A"	"B"
8001 A	1.000	1.50
8001 C	2.000	2.50
8001 B	1.500	2.00
8001 D	2.500	3.00

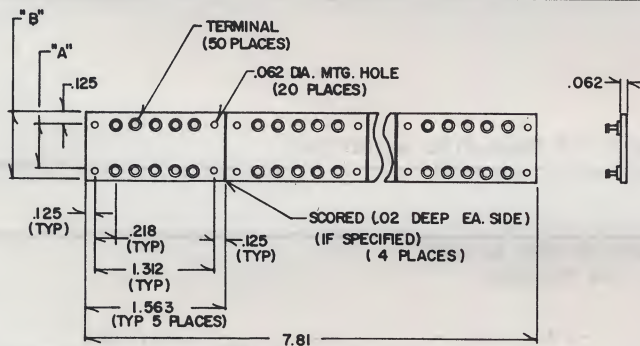
INCLUDE DESIRED TABULATED VARIATION DASH NUMBER WHEN ORDERING.

Part No. 8001



INCLUDE DESIRED TABULATED VARIATION DASH NUMBER WHEN ORDERING.

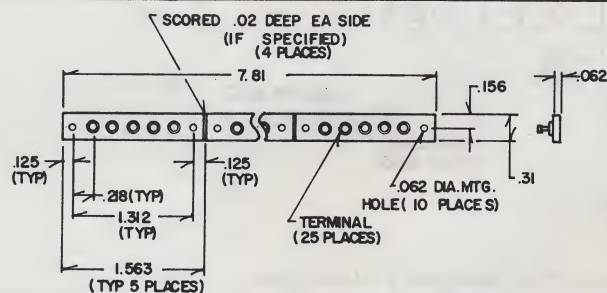
Part No. 8002



PART NO.	"A"	"B"
8003 C	.750	1.00
8003 B	.500	.75

INCLUDE DESIRED TABULATED VARIATION DASH NUMBER WHEN ORDERING.

Part No. 8003



INCLUDE DESIRED TABULATED VARIATION DASH NUMBER WHEN ORDERING.

Part No. 8004

Terminal Boards



Tabulated Variations

TABULATED VARIATIONS FOR PARTS

8001, 8002, 8003, 8004

DASH NO.	MATERIAL *	WITH * * LUGS	NO LUGS	WITH SCORING	NO SCORING
-1	PBE		X		X
-2	PBE	X			X
-3	PBE		X	X	
-4	PBE	X		X	
-5	GMG		X		X
-6	GMG	X			X
-7	GMG		X	X	
-8	GMG	X		X	
-9	GSG		X		X
-10	GSG	X			X
-11	GSG		X	X	
-12	GSG	X		X	
-13	GEE		X		X
-14	GEE	X			X
-15	GEE		X	X	
-16	GEE	X		X	

ORDER BY; BASIC PART NUMBER FOLLOWED BY DASH NUMBER
FROM TAB BLOCK (EXAMPLE 8001A-1)

SPL. ORDER; CHANGES IN INDICATED DIMENSIONS, CHANGES IN
INDICATED TERMINAL, ETC. (PRICE WILL BE
ADVISED ACCORDINGLY)

MATL , BOARD, PBE , PHENOLIC PER . MIL - P - 3115
GMG, MELAMINE PER MIL- P - 15037 B
GSG, SILICONE PER MIL-P - 997 B
GEE, EPOXY PER MIL-P - 18177A.

TERM , BRASS, 1/2 HARD, COMP. 22, QQ-B-626.

TOL. , .XXX ± .010 , .XX ± .016.

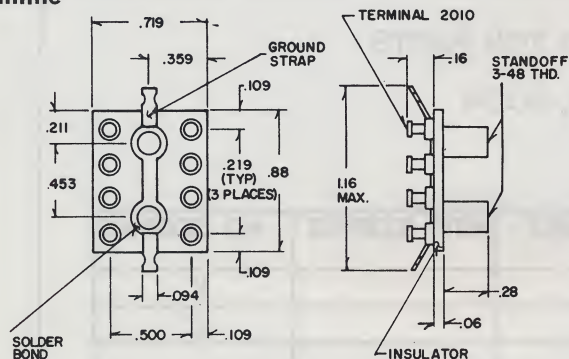
* * TERMINAL ; (STD)

8001 & 8002 - 1300
8003 & 8004 - 2010

Part No. 8001, 8002, 8003 & 8004

Resistor Boards

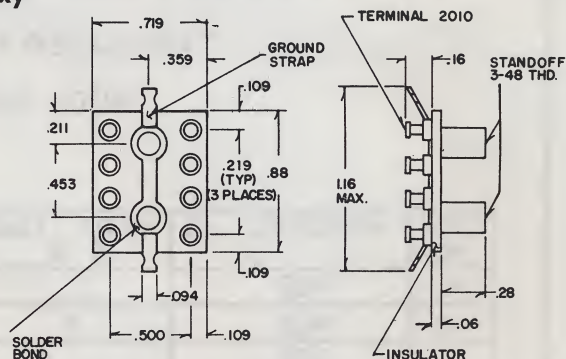
Melamine



FOR USE WITH 1/2 WATT RESISTORS.

Part No. 1180

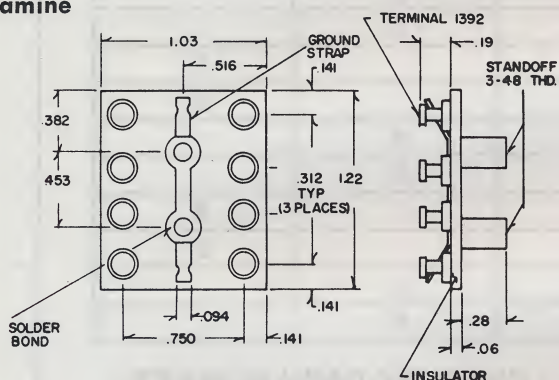
Epoxy



FOR USE WITH 1/2 WATT RESISTORS.

Part No. 1183

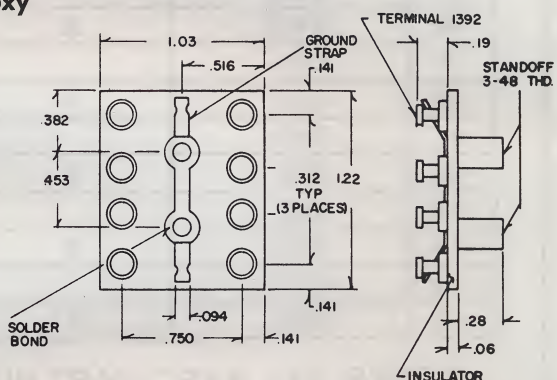
Melamine



FOR USE WITH 1 WATT RESISTORS.

Part No. 1181

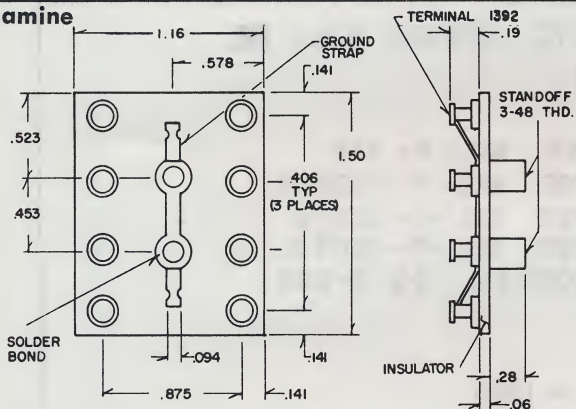
Epoxy



FOR USE WITH 1 WATT RESISTORS

Part No. 1184

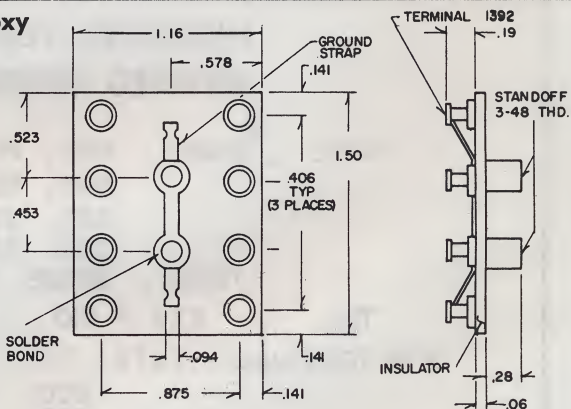
Melamine



FOR USE WITH 2 WATT RESISTORS.

Part No. 1182

Epoxy



FOR USE WITH 2 WATT RESISTORS.

Part No. 1185

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

TOLERANCE: .XXX $\pm$.010, .XX $\pm$.016

SECTION G

INSTRUMENT PANEL HARDWARE

A complete line of USECO instrument panel hardware is readily available to the design engineer. Attractively styled handles and knobs, compatible in appearance and color, make possible the design of functional, handsome instrument panels. Other accessory hardware such as shaft locks, spacers, bushings, etc. complete the most diversified line of standardized electronic hardware in the industry.

SPECIFICATIONS (See individual part specifications for standard materials & finishes)

Materials: Brass, 1/2 hard, composition 22 per QQ-B-626
Aluminum, Alloy per QQ-A-325A
Stainless Steel, per QQ-S-763, class 303 condition A

Finishes: -11, Cadmium per QQ-P-416, Type I, class 2
-12, Nickel per QQ-N-290, Type VI (KC) class I
-13, Chrome/Nickel per QQ-N-290, Type VI(KC) Class I
-14, Black Oxide per MIL-F-14072 (E311)
-17, Passivate per MIL-F-14072 (E300)
-20 Clear
-21 Brown
-22 Red
-23 Orange
-24 Yellow
-25 Green
-26 Blue
-27 Violet
-28 Grey
-30 Black

— Anodize per MIL-A-8625 Type I

HOW TO ORDER: Standard electronic hardware should be ordered by part number with the desired finish callout.

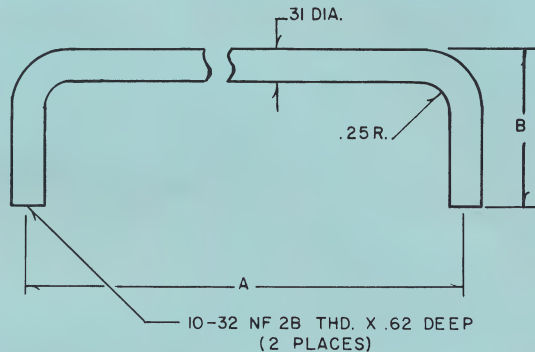
Examples: 1510-12
1007-12
11-2-11
1000-20

Custom Hardware and Plating on Special Order

Complete Plating Specifications Listed on Page 84

Handles (Brass)

Cabinet — Internal Thread

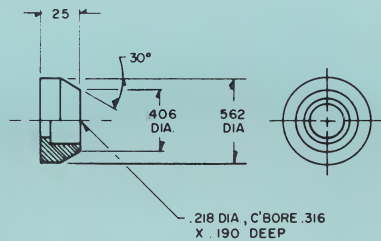


PART NO.	"A"	"B"	PART NO.	"A"	"B"	PART NO.	"A"	"B"
1004	6.44	1.50	1010	4.25	1.50	1015	3.00	1.50
1005	6.44	1.75	1011	6.75	1.75	* 1016	3.00	1.31
1006	3.00	1.31	1012	4.00	1.50	1017	2.00	1.50
1007	6.00	1.50	1013	4.56	1.50	1018	8.00	1.50
			1019	10.00	1.50			

* SUPPLIED WITH 8-32 THREAD

Part No. 1004 thru 1019

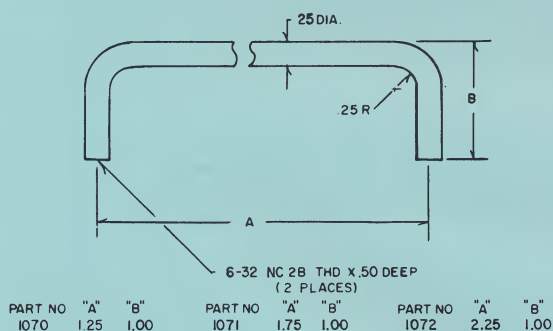
Ferrule — Standard Size



MAY BE USED WITH HANDLES 1004 through 1019

Part No. 900

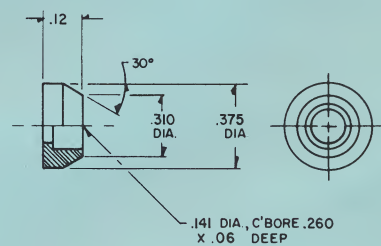
Cabinet Miniature



PART NO.	"A"	"B"	PART NO.	"A"	"B"	PART NO.	"A"	"B"
1070	1.25	1.00	1071	1.75	1.00	1072	2.25	1.00

Part No. 1070 thru 1072

Ferrule — Miniature Size



MAY BE USED WITH HANDLES 1070/1072

Part No. 903

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

TOLERANCE: .XXX ± .010, .XX ± .016 BEFORE FINISH.

FINISH:

(STANDARD) —12 NICKEL

—14 BLACK OXIDE

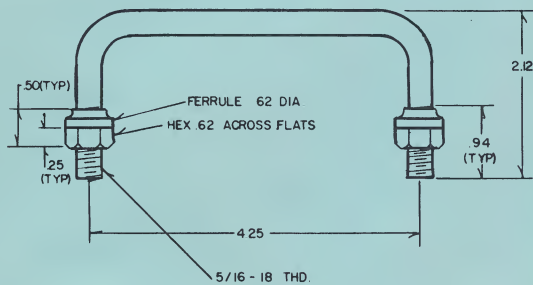
—13 CHROME OPTIONAL AT ADDITIONAL COST

Instrument Panel Hardware



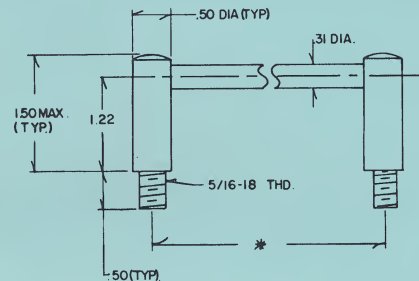
Handles (Brass)

Cabinet — External Thread



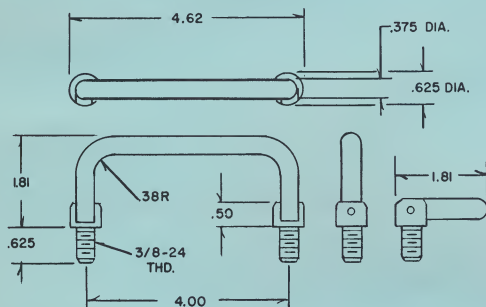
Part No. 1020

Post



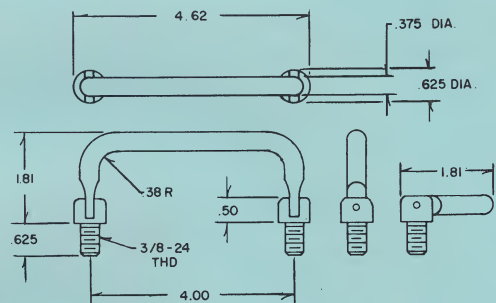
Part No. 1030

Folding 90°



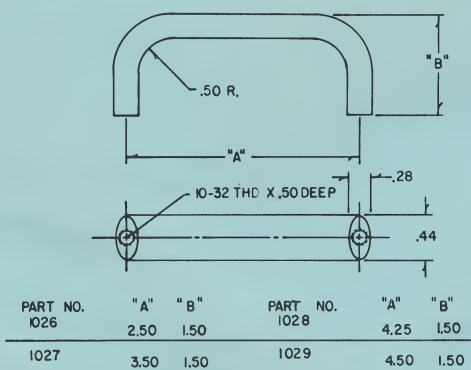
Part No. 1031

Folding 180°



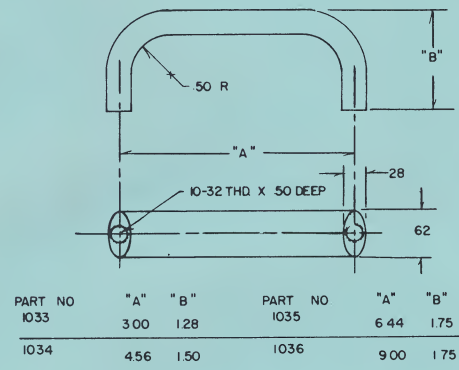
Part No. 1032

Oval



Part No. 1026 thru 1029

Oval



Part No. 1033 thru 1036

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.

TOLERANCE: XXX ± .010, .XX ± .016 BEFORE FINISH.

FINISH:

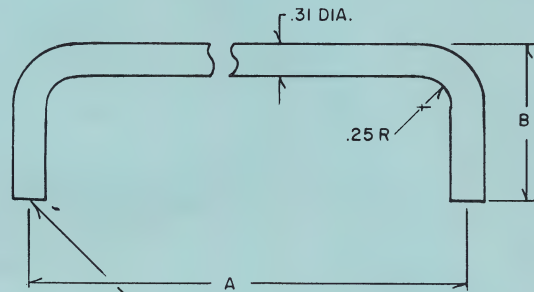
(STANDARD) —12 NICKEL

—14 BLACK OXIDE

—13 CHROME OPTIONAL AT ADDITIONAL COST

Handles (Aluminum)

Cabinet — Internal Thread

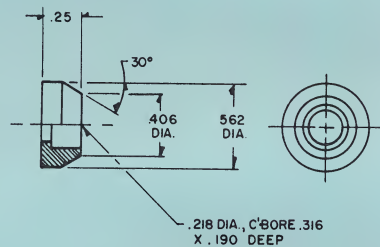


10-32 NF 2B THD. X .62 DEEP
(2 PLACES)

PART NO.	"A"	"B"	PART NO.	"A"	"B"	PART NO.	"A"	"B"
1060	6.44	1.50	1064	4.00	1.50	1067	2.00	1.50
1061	6.44	1.75	1065	4.56	1.50	1068	8.00	1.50
1062	6.00	1.50	1066	3.00	1.50	1069	10.00	1.50
1063	4.25	1.50						

Part No. 1060 thru 1069

Ferrule — Standard Size

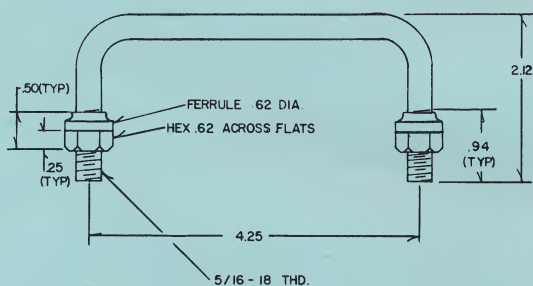


MAY BE USED WITH HANDLES 1060 THROUGH 1069

Part No. 901

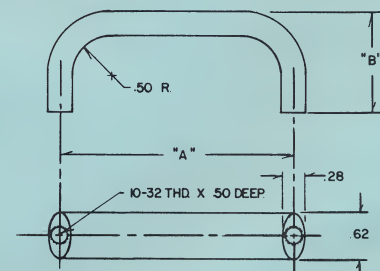
Cabinet

Cabinet



Part No. 1021

Oval



PART NO.	"A"	"B"	PART NO.	"A"	"B"
1050	3.00	1.28	1052	6.44	1.75
1051	4.56	1.50	1053	9.00	1.75

Part No. 1050

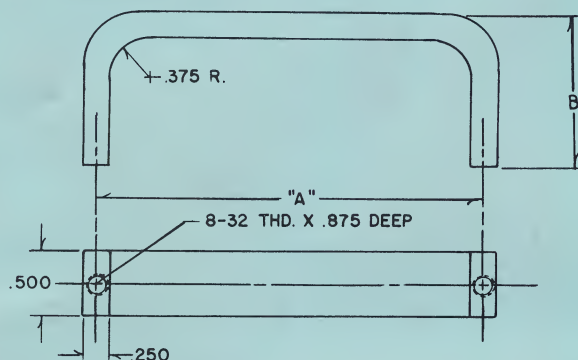
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
TOLERANCE: XXX $\pm$.010, XX $\pm$.016 BEFORE FINISH.
STANDARD FINISH BUFFED
FOR ANODIZE FINISH SEE PAGE 84

Instrument Panel Hardware



Handles (Aluminum)

Rectangular



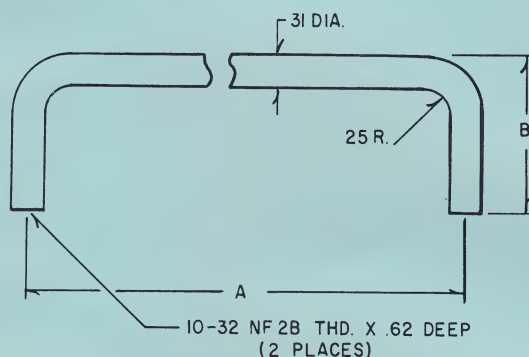
PART NO.	"A"	"B"
1054	4.25	1.50
1055	6.00	1.50

FINISH; BRIGHT: CHROMATE CONVERSION COATING PER MIL-C-5541
NON-REFLECTIVE BLACK: BLACK ANODIZE PER MIL-A-8625 TYPE II

Part No. 1054 & 1055

Handles (Stainless Steel)

Cabinet—Internal Thread

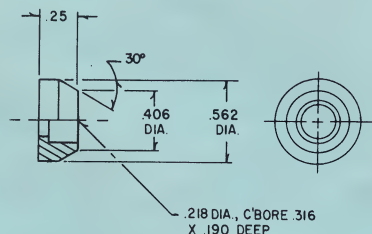


PART NO.	"A"	"B"
1090	2.00	1.50
*1091	3.00	1.31
1092	3.00	1.50
1093	4.00	1.50
1094	4.25	1.50
1095	4.56	1.50
1096	6.00	1.50
1097	8.00	1.50
1098	10.00	1.50

FINISH; BRIGHT: BRIGHT PASSIVE PER MIL-F-14072 (E 300)(STD.)
NON-REFLECTIVE BLACK:
BLACK PASSIVE PER MIL-C-13924 CL. III (14.1)

* SUPPLIED WITH 8-32 THD. FOR MTG.

Part No. 1090 thru 1098



FINISH; BRIGHT: BRIGHT PASSIVATE PER MIL-F-14072 (E 300)(STD.)
NON-REFLECTIVE BLACK:
BLACK PASSIVATE PER MIL-C-13924 CL. III (14.1)

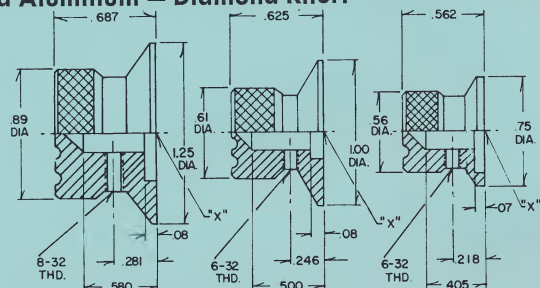
PART MAY BE USED WITH HANDLES NO. 1090 THROUGH 1098

Part No. 904

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
TOLERANCE (STANDARD): .XXX ± .010, .XX ± .016 BEFORE FINISH.

Knobs (Aluminum)

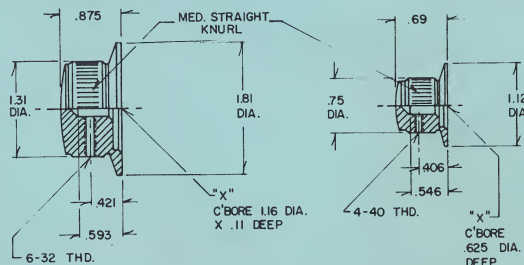
Round Aluminum — Diamond Knurl



PART NO.	"X"	MAX. SH.DIA.	PART NO.	"X"	MAX. SH.DIA.	PART NO.	"X"	MAX. SH.DIA.
310	1/4	.250	305	1/4	.250	300	1/4	.250
311	3/16	.188	306	3/16	.188	301	3/16	.188
312	1/8	.125	307	1/8	.125	302	1/8	.125

Part No. 300

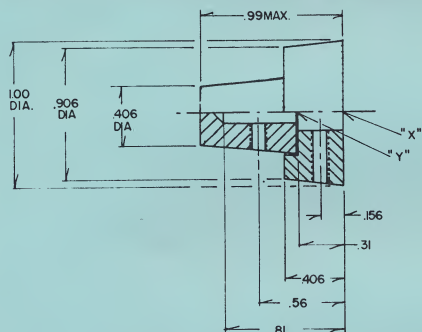
Round Aluminum—Straight Knurl



PART NO.	"X"	MAX. SH.DIA.	PART NO.	"X"	MAX. SH.DIA.
410	1/4	.250	400	1/4	.250
411	3/16	.188	401	3/16	.188
412	1/8	.125	402	1/8	.125

Part No. 400

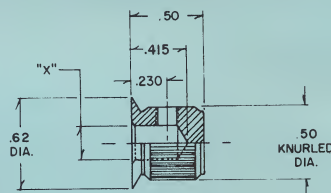
Dual



PART NO.	"X" DIA.	"Y" DIA.	MAX. SH.DIA'S
450	1/4	1/8	.250 & .125

Part No. 450

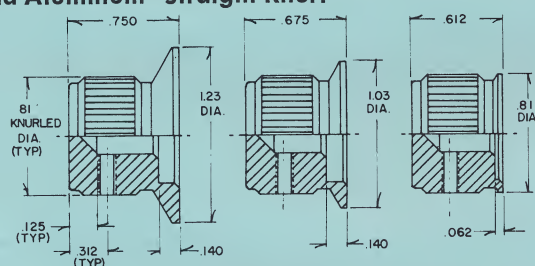
Round Aluminum—Straight Knurl



PART NO.	"X"	MAX. SH.DIA.
500	1/4	.250
501	3/16	.188
502	1/8	.125

Part No. 500

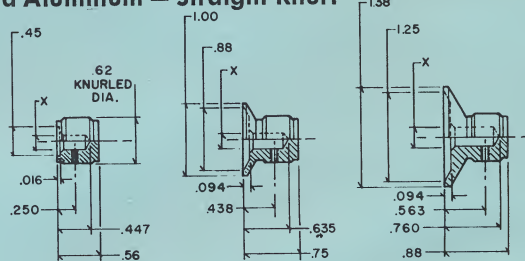
Round Aluminum—Straight Knurl



PART NO.	"X"	MAX. SH.DIA.	PART NO.	"X"	MAX. SH.DIA.	PART NO.	"X"	MAX. SH.DIA.
560	1/4	.250	555	1/4	.250	550	1/4	.250
561	3/16	.188	556	3/16	.188	551	3/16	.188
562	1/8	.125	557	1/8	.125	552	1/8	.125

Part No. 550

Round Aluminum — Straight Knurl



PART NO.	X	MAX. SH.DIA.	PART NO.	X	MAX. SH.DIA.	PART NO.	X	MAX. SH.DIA.
627	1/8	.125	1002	1/8	.125	1040	1/8	.125
626	3/16	.188	1001	3/16	.188	1039	3/16	.188
625	1/4	.250	1000	1/4	.250	1038	1/4	.250

Part No. 625

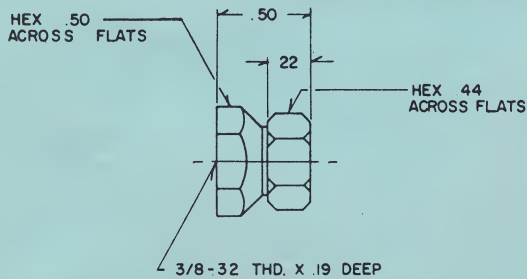
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
TOLERANCE: XXX $\pm$.010, XX $\pm$.016 BEFORE FINISH.
STANDARD FINISH BUFFED.
FOR ANODIZE FINISH SEE PAGE 84
KNOBS FOR .125 SHAFT DIAMETER ARE
FURNISHED WITH ONE SET SCREW.
ALL OTHERS HAVE TWO SET SCREWS.

Instrument Panel Hardware



Shaft Locks

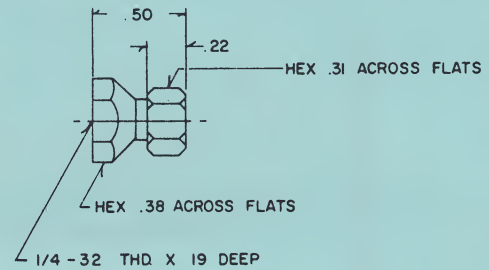
1/4" Shaft



PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1510	.250	.32

Part No. 1510

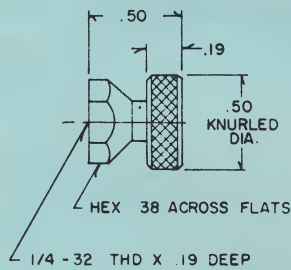
1/8" Shaft



PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1512	.125	.32

Part No. 1512

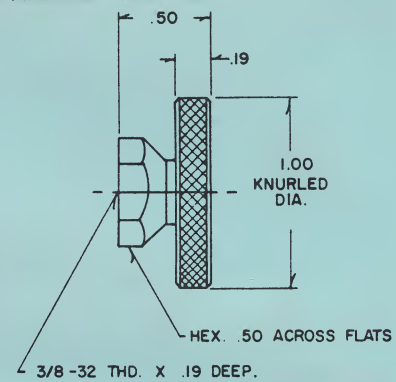
1/8" Shaft



PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1513	.125	.32

Part No. 1513

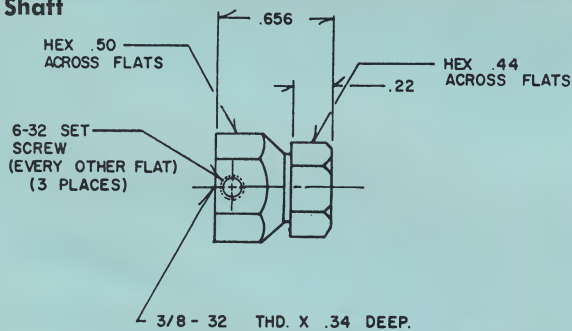
1/4" Shaft



PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1520	.250	.32

Part No. 1520

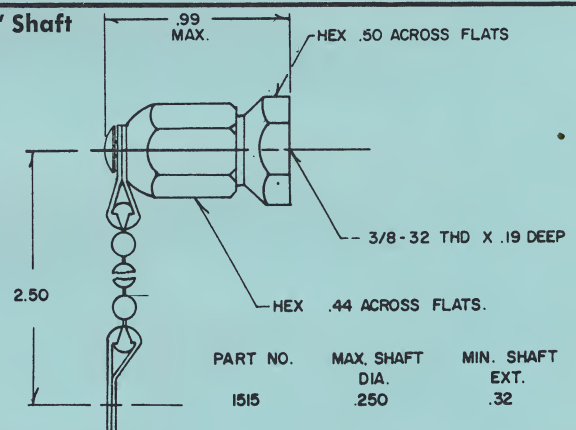
1/4" Shaft



PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1511	.250	.32

Part No. 1511

1/4" Shaft

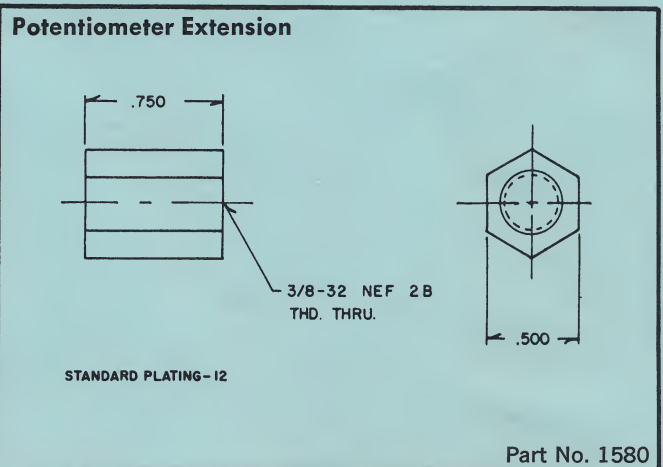
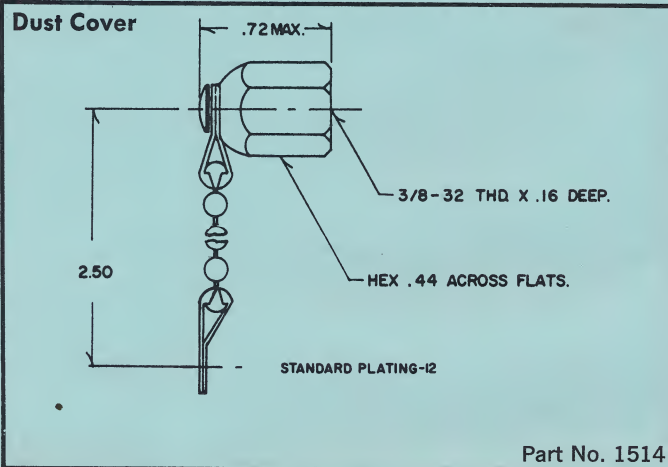


PART NO.	MAX. SHAFT DIA.	MIN. SHAFT EXT.
1515	.250	.32

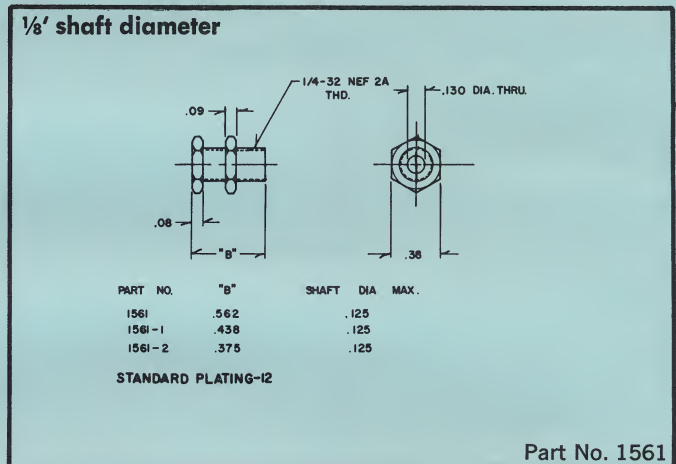
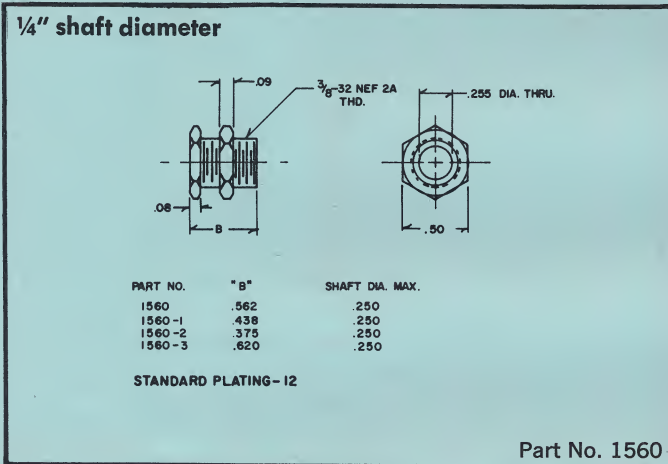
Part No. 1515

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
STANDARD PLATING—12
TOLERANCE; .XXX ± .010, .XX ± .016 BEFORE FINISH

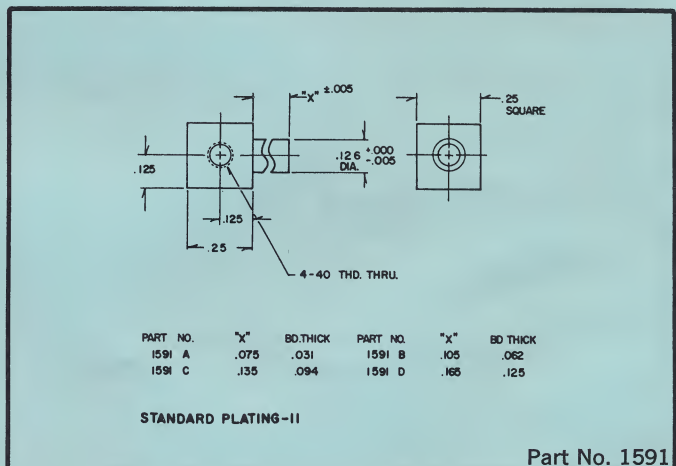
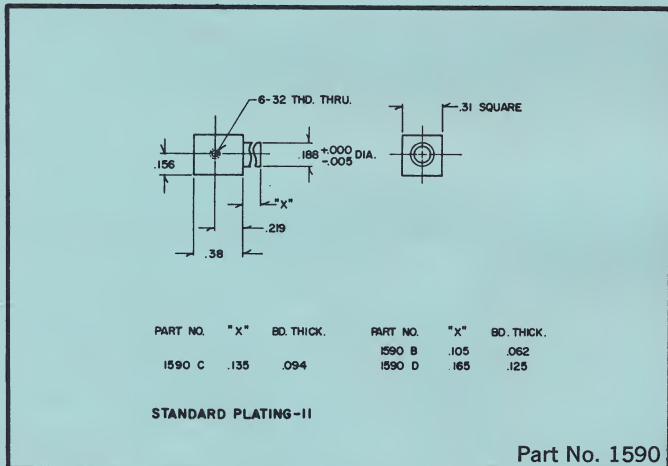
Locks



Chassis Bushing



Chassis Fastener



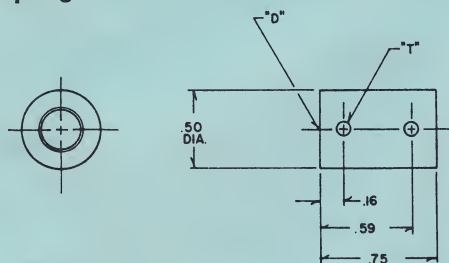
SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
TOLERANCE (STANDARD): .XXX ± .010, .XX ± .016 BEFORE FINISH.

Instrument Panel Hardware

USECO

Accessory Hardware

Shaft Coupling

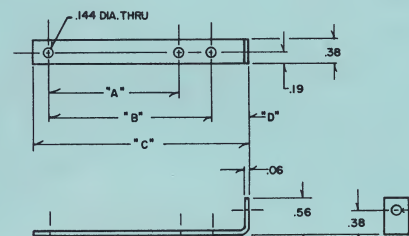


PART NO.	"D"	"T"
3316 A	.251 $\pm .004$ DIA. -.000	6-32 SET SCREWS(4 PLACES)
3316 B	.126 $\pm .004$ DIA. -.000	6-32 SET SCREWS(2 PLACES)

STANDARD PLATING-12

Part No. 3316

Bracket

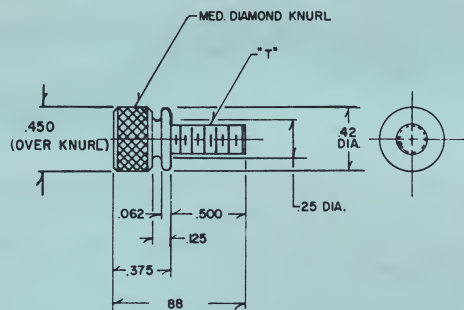


PART NO.	"A"	"B"	"C"	"D"	REC. USE
11 - 2	1.500		2.12	.35	1100 B
11 - 3	1.500	2.000	2.62	.35	1100 B A C
11 - 4	2.000	2.500	3.31	.56	1100 C A D
11 - 5	1.500	2.000	2.81	.56	1100 B A C

STANDARD PLATING-11

Part No. 11

Screws

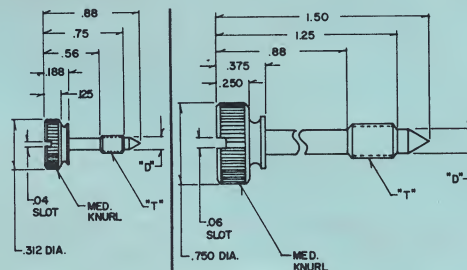


PART NO.	"T"
3100 - 6	6-32
3100 - 8	8-32
3100 - 10	10-32

STANDARD PLATING-12

Part No. 3100

Captive Panel Screw



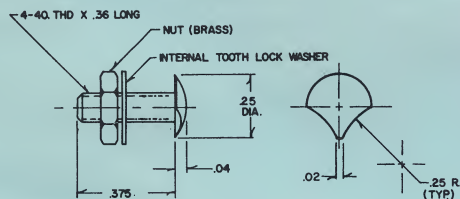
PART NO.	"D"	"T"
3200-6	.094	6-32
3200-8	.120	8-32
3200-10	.140	10-32

STANDARD PLATING-12

PART NO.	"D"	"T"
3200-25	.171	1/4-20

Part No. 3200

Dial Indicator

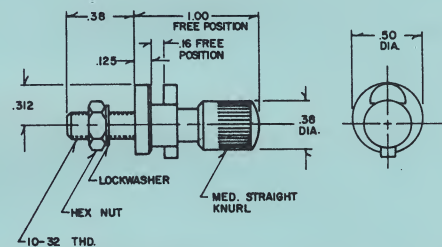


PART NO.
1815

STANDARD PLATING-12

Part No. 1815

Dial Lock



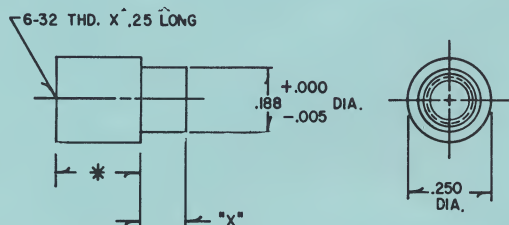
STANDARD PLATING-12

Part No. 1800

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
TOLERANCE (STANDARD): .XXX $\pm$.010, .XX $\pm$.016 BEFORE FINISH.

Stand-offs

Swage Type, Round

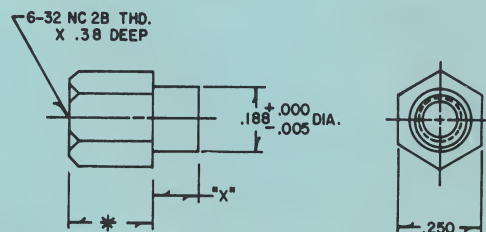


PART NO. "X" *
 1530 () ()
 (X) A=.075 B=.105 C=.135 D=.165
 .031 .062 .094 .125 BD. THICKNESS.
 * (1/8), (3/16), (1/4), (3/8), (1/2), (5/8), (3/4), (1.00).

ORDER BY ; BASIC PART NO, LETTER & LENGTH IN FRACTION.
 EXAMPLE ; 1530 A 1/8
 MODEL NO. "X" DIM. * DIM.

Part No. 1530

Swage Type, Hex

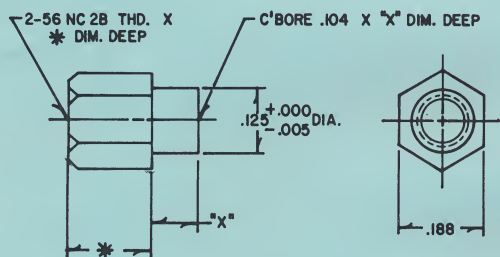


PART NO. "X" *
 1531 () ()
 (X) A=.075 B=.105 C=.135 D=.165
 .031 .062 .094 .125 BD. THICKNESS.
 * (1/8), (3/16), (1/4), (3/8), (1/2), (5/8), (3/4), (1.00).

ORDER BY ; BASIC PART NO, LETTER & LENGTH IN FRACTION.
 EXAMPLE, 1531 A 1/8
 MODEL NO. "X" DIM. * DIM.

Part No. 1531

Swage Type, Hex

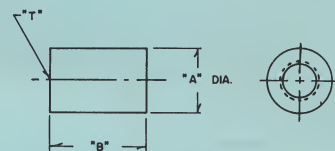


PART NO. "X" *
 1532 () ()
 (X) A=.075 B=.105 C=.135 D=.165
 .031 .062 .094 .125 BD. THICKNESS.
 * (3/32), (1/8), (5/32), (3/16), (1/4), (5/16), (3/8).

ORDER BY ; BASIC PART NO, LETTER & LENGTH IN FRACTION.
 EXAMPLE ; 1532 A 3/32
 MODEL NO. "X" DIM. * DIM.

Part No. 1532

Threaded, Round



PART NO.	"A"	"B"	"T"	PART NO.	"A"	"B"	"T"
1550 A	.18	.250	4-40	1550 B	.18	.375	4-40
1550 C	.25	.250	6-32	1550 D	.25	.375	6-32
1550 E	.25	.500	6-32	1550 F	.25	.625	6-32
1550 G	.25	.750	6-32	1550 H	.38	.250	8-32
1550 I	.38	.375	8-32	1550 J	.38	.500	8-32
1550 K	.38	.625	8-32	1550 M	.38	.750	8-32

Part No. 1550

Threaded, Hex



PART NO.	"A"	"B"	"T"	PART NO.	"A"	"B"	"T"
1551 A	.18	.250	4-40	1551 B	.18	.375	4-40
1551 C	.25	.250	6-32	1551 D	.25	.375	6-32
1551 E	.25	.500	6-32	1551 F	.25	.625	6-32
1551 G	.25	.750	6-32	1551 H	.38	.250	8-32
1551 I	.38	.375	8-32	1551 J	.38	.500	8-32
1551 K	.38	.625	8-32	1551 M	.38	.750	8-32

Part No. 1551

SPECIFICATIONS COMMON TO PARTS ON THIS PAGE.
 FINISH: CADMIUM PLATE PER QQ-P-416, TY I, CL. B.
 STANDARD PLATING -11
 TOLERANCE; .XXX ± .010, .XX ± .016. BEFORE FINISH

Decimal Equivalent Chart



TABLE II. STANDARD CONVERSION TABLE

4ths	8ths	16ths	32nds	64ths	To 4 PLACES	To 3 PLACES	To 2 PLACES	4ths	8ths	16ths	32nds	64ths	To 4 PLACES	To 3 PLACES	To 2 PLACES
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	.0156	.016	.02	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{17}{32}$	$\frac{33}{64}$	.5156	.516	.52
				$\frac{3}{64}$	.0312	.031	.03					$\frac{35}{64}$	.5312	.531	.53
			$\frac{3}{32}$	$\frac{5}{64}$	.0469	.047	.05				$\frac{19}{32}$	$\frac{37}{64}$	.5469	.547	.55
				$\frac{7}{64}$	.0625	.062	.06					$\frac{39}{64}$	.5625	.562	.56
		$\frac{3}{16}$	$\frac{5}{32}$	$\frac{11}{64}$	.0781	.078	.08			$\frac{11}{16}$	$\frac{21}{32}$	$\frac{41}{64}$	.5781	.578	.58
				$\frac{13}{64}$	.0938	.094	.09					$\frac{43}{64}$	.5938	.594	.59
			$\frac{7}{32}$	$\frac{15}{64}$	.1094	.109	.11				$\frac{23}{32}$	$\frac{45}{64}$	.6094	.609	.61
				$\frac{17}{64}$	.1250	.125	.12					$\frac{47}{64}$	.6250	.625	.62
		$\frac{5}{16}$	$\frac{9}{32}$	$\frac{19}{64}$	.1406	.141	.14				$\frac{25}{32}$	$\frac{49}{64}$	.6406	.641	.64
				$\frac{21}{64}$	.1562	.156	.16					$\frac{51}{64}$	.6562	.656	.66
			$\frac{11}{32}$	$\frac{23}{64}$	.1719	.172	.17			$\frac{7}{8}$	$\frac{27}{32}$	$\frac{53}{64}$	.6719	.672	.67
				$\frac{25}{64}$	.1875	.188	.19					$\frac{55}{64}$	.6875	.688	.69
	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{13}{32}$	$\frac{27}{64}$	.2031	.203	.20				$\frac{29}{32}$	$\frac{57}{64}$	.7031	.703	.70
				$\frac{29}{64}$	.2188	.219	.22					$\frac{59}{64}$	.7188	.719	.72
			$\frac{15}{32}$	$\frac{31}{64}$	.2344	.234	.23				$\frac{31}{32}$	$\frac{61}{64}$	.7344	.734	.73
				$\frac{33}{64}$	.2500	.250	.25					$\frac{63}{64}$	.7500	.750	.75
		$\frac{15}{16}$	$\frac{17}{32}$	$\frac{35}{64}$	.2656	.266	.27				$\frac{33}{32}$	$\frac{65}{64}$	.7656	.766	.77
				$\frac{37}{64}$	.2812	.281	.28					$\frac{67}{64}$	.7812	.781	.78
			$\frac{19}{32}$	$\frac{39}{64}$	.2969	.297	.30				$\frac{35}{32}$	$\frac{71}{64}$	.7969	.797	.80
				$\frac{41}{64}$	.3125	.312	.31					$\frac{73}{64}$	.8125	.812	.81
		$\frac{1}{2}$	$\frac{21}{32}$	$\frac{43}{64}$	.3281	.328	.33				$\frac{37}{32}$	$\frac{75}{64}$	.8281	.828	.83
				$\frac{45}{64}$	.3438	.344	.34					$\frac{77}{64}$	.8438	.844	.84
			$\frac{23}{32}$	$\frac{47}{64}$	.3594	.359	.36				$\frac{39}{32}$	$\frac{79}{64}$	.8594	.859	.86
				$\frac{49}{64}$	.3750	.375	.38					$\frac{81}{64}$	.8750	.875	.88
			$\frac{25}{32}$	$\frac{51}{64}$	.3906	.391	.39				$\frac{41}{32}$	$\frac{83}{64}$	.8906	.891	.89
				$\frac{53}{64}$	.4062	.406	.41					$\frac{85}{64}$	.9062	.906	.91
			$\frac{27}{32}$	$\frac{55}{64}$	.4219	.422	.42				$\frac{43}{32}$	$\frac{87}{64}$	.9219	.922	.92
				$\frac{57}{64}$	.4375	.438	.44					$\frac{89}{64}$	.9375	.938	.94
			$\frac{29}{32}$	$\frac{59}{64}$	.4531	.453	.45				$\frac{45}{32}$	$\frac{91}{64}$	.9531	.953	.95
				$\frac{61}{64}$	.4688	.469	.47					$\frac{93}{64}$	.9688	.969	.97
			$\frac{31}{32}$	$\frac{63}{64}$	.4844	.484	.48				$\frac{47}{32}$	$\frac{95}{64}$	.9844	.984	.98
				$\frac{65}{64}$	.5000	.500	.50					$\frac{97}{64}$	1.0000	1.000	1.00

CHECK LIST

Correct Tool
(1300 Tool for 1300 Terminal)

Tool Alignment

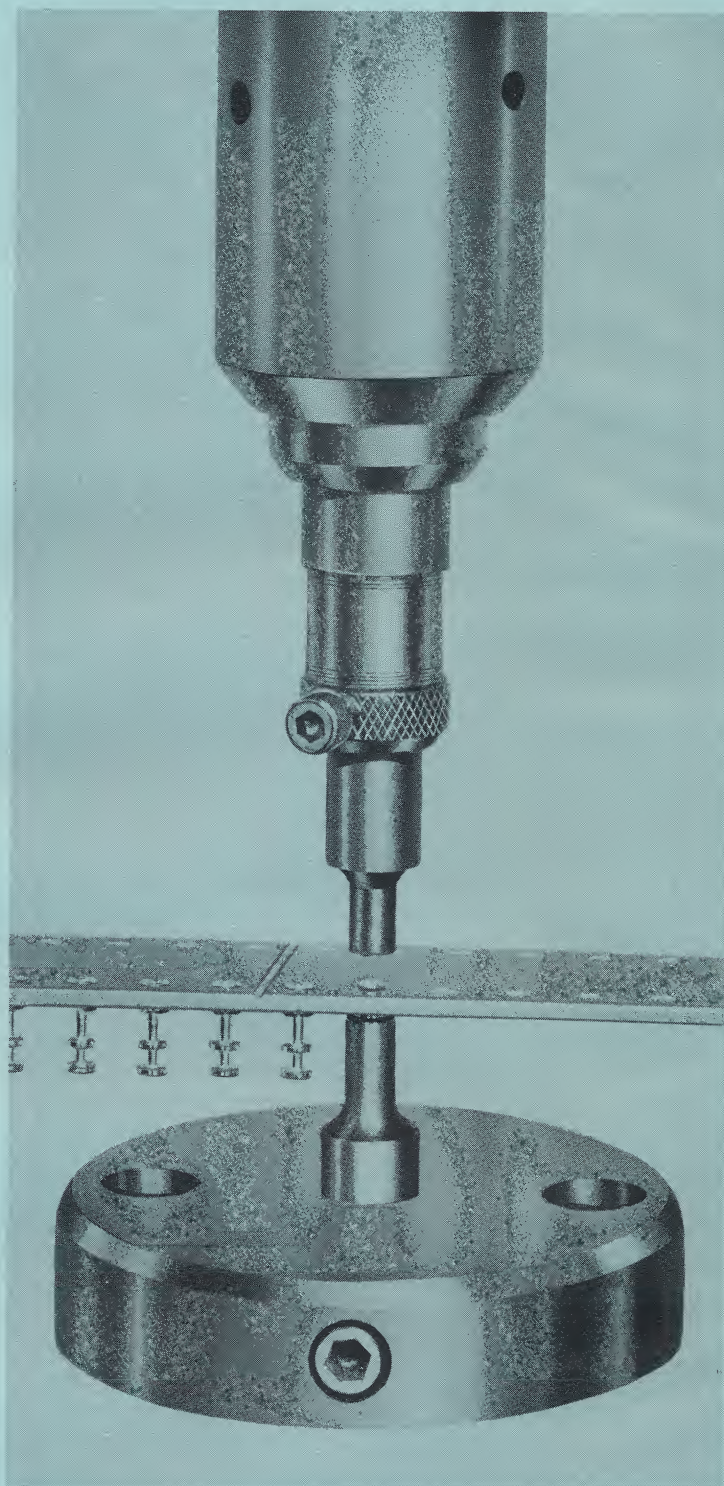
Swage Pressure

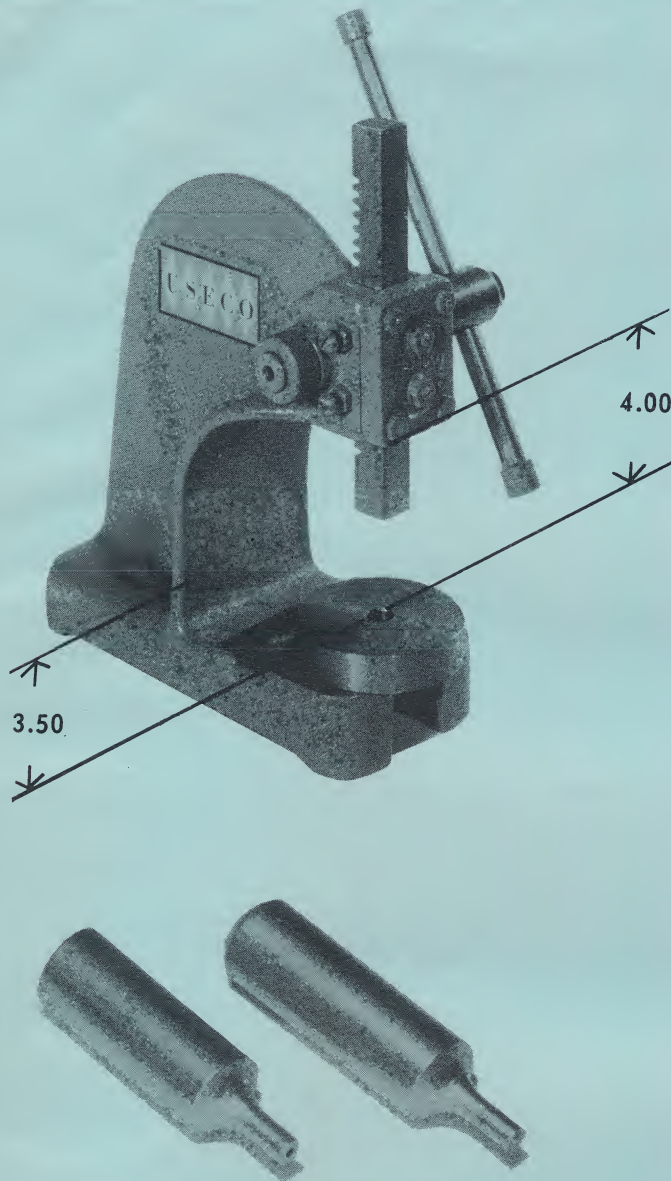
**Proper Shank Length for
Board Thickness Used.**
(1300C-1 for .093 Board)

**Board Should Be Level with
Base Plate at Impact.**

**Tool in Use Over Long Periods
Should Be Polished in Pumice or
Jeweler's Rouge.**

All USECO swage type terminals have an adequate size counterbore in the shank end to allow for proper swaging. This hole is not illustrated in the catalog.





SWAGING TOOLS

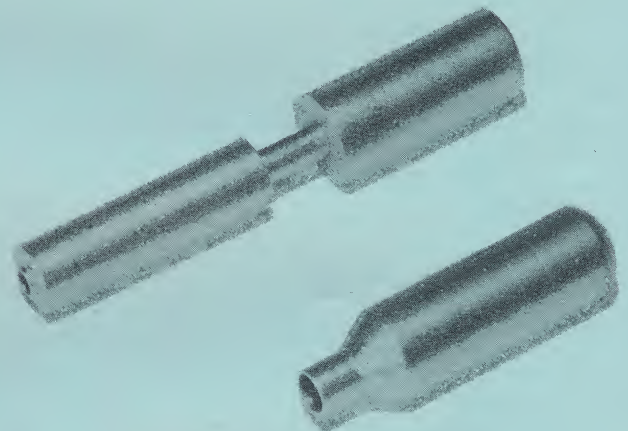
Accurately machined from highest quality SAE #4130 chromium steel alloy, USECO swaging tools are flame-hardened and highly polished to assure long and dependable service. All tools are of $\frac{1}{2}$ inch diameter and can be readily mounted in the USECO Model "A" swaging machine.

Years of experience has proved the importance of correct tooling. When USECO swaging tools are used in conjunction with USECO terminals you can be confident of a smooth, even roll-over without the threat of splitting or cracking.

Weldable Terminal Tools are Chrome Plated to reduce metallic contamination prior to welding.

SWAGING MACHINES

The hand operated USECO Model "A" swaging machine is of rugged rack and pinion construction, precision machined to ensure smooth and rapid operation. With a pressure ratio of 4 to 1, a $3\frac{3}{4}$ inch stroke and a $3\frac{1}{2}$ inch throat depth, this machine is ideally suited for your light assembly requirements.



"LOC-FIT" INSTALLATION TOOLS

USECO "Loc-Fit" installation tools were designed for rapid installation of "Loc-Fit" terminals, feed-thrus, and test points. The construction of "Loc-Fit" terminals and grommets, when used with proper USECO tooling, lends itself to rapid, easy installation. These tools are also of $\frac{1}{2}$ inch diameter and can be used in the USECO Model "A" swaging machine.

How To Order USECO tools:

The tool number is the same as the model number of the corresponding terminal. Check the catalog for the correct number.

- Example:
1. For terminal #1300 A-1, order tool #1300
 2. For "Loc-Fit" #4430 B-9, order tool #4430

Mil-T-55155 Terminals

U.S. Engineering Company offers from stock a wide variety of MIL-T-55155 terminals for those applications that require military approved components. For convenience of ordering, USECO part numbers have been assigned which reflect the various combinations offered as standard. Should a non-standard combination be desired prices will be promptly quoted. Consult the cross reference below for standard items. Drawings and specifications may be found herein as follows:

Insulated Terminals—Pages 15, 16
Standard Terminals—Pages 50, 51, 52
Printed Circuit Terminals—Page 60

ORDERING INFORMATION

The MIL-T-55155 detail specification number indicates the basic style and identification codes. The complete style number consists of the style code, the insulation color code, the mounting code and the identification code.

1. Style Code Taken from MIL-T-55155	2. Insulation Color Code 0 = Black 1 = Brown 2 = Red 3 = Orange 4 = Yellow X = Natural or Non-insulated	3. Mounting Code A = Threaded Metal Bushing B = Compression C = Swage D = Tapped Hole E = Threaded Stud	4. Identification Code Shank Length taken from MIL-T-55155
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EXAMPLE:

MIL-T-55155/3-1 may be ordered as FT03-9-B-01 or 4501A

FT03 (Feedthru style teflon insulated)	-9 (white insulator)	-B (compression mounting)	-01 (.100 shank length)
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MIL-T-55155 CROSS REFERENCE TO USECO

MIL T 55155 Detail Specification Number	Style* Number	USECO Number	MIL T 55155 Detail Specification Number	Style* Number	USECO Number
3	FT 03-9-B-01	4501-A	15	SE 15-X-C-01	4528-B
	-02	-B		-02	-C
	-03	-C		-03	-D
4	FT 04-9-B-01	4500-A		-04	4529-B
	-02	-B		-05	-C
5	FT 05-9-B-01	4502-A		-06	-D
	-02	-B		-07	4530-B
	-03	-C		-08	-C
6	FT 06-9-B-01	4503-A		-09	-D
	-02	-B	16	SE 16-X-C-01	4531-B
7	SE 07-9-B-01	4504-A		-02	-C
	-02	-B		-03	-D
8	SE 08-9-B-01	4505-A	17	SE 17-X-C-01	4532-B
11	SE 11-X-C-01	4520-B		-02	-C
	-02	-C		-03	-D
	-03	-D	18	SE 18-5-E-01	4550-A
12	SE 12-X-C-01	4521-B		-02	-B
	-02	-C	19	SE 19-5-D-01	4551
	-03	-D	20	SE 20-5-D-01	4552-A
	-04	4522-B		-02	-B
	-05	-C	21	SE 21-9-E-01	4553-A
	-06	-D		-02	-B
	-07	4523-B		-03	4554-A
	-08	-C		-04	-B
	-09	-D	23	SE 23-X-C-01	4570-A
13	SE 13-X-C-01	4524-B		-02	-B
	-02	-C		-03	-C
	-03	-D		-04	-D
	-04	4525-B	24	SE 24-X-C-01	4571-A
	-05	-C		-02	-B
	-06	-D		-03	-C
14	SE 14-X-C-01	4526-B		-04	-D
	-02	-C	25	SE 25-X-C-01	4572-A
	-03	-D		-02	-B
	-04	4527-B		-03	-C
	-05	-C		-04	-D
	-06	-D			

*NOTE: USECO MIL-T-55155 insulated terminals are supplied in colors and styles as listed in this cross reference as standard. Other colors, etc. supplied on special order.

MS Cross Reference To USECO



MS Part USECO Part

MS 17121- 1=2061AA-2.2

- 2=2061A-2.2

- 3=1340A*-2.2

- 4=1350A*-2.2

- 5=2061B-2.2

- 6=1340B*-2.2

- 7=1350B-2.2

- 8=2061C-2.2

- 9=1340C*-2.2

-10=1350C*-2.2

-11=2061D-2.2

-12=1340D*-2.2

-13=1350D*-2.2

MS 17122- 1=2030AA-2.2

- 2=2030A-2.2

- 3=1281A-2.2

- 4=1300A-2.2

- 5=2030B-2.2

- 6=1281B-2.2

- 7=1300B-2.2

- 9=2030C-2.2

-10=1281C-2.2

-11=1300C*-2.2

-13=2030D-2.2

-14=1281D-2.2

-15=1300D*-2.2

MS 17155- 2=2530A-2.2

- 4=2050A-2.2

- 5=2530B-2.2

- 7=2050B-2.2

- 8=2530C-2.2

-10=2050C-2.2

-11=2530D-2.2

-13=2050D-2.2

MS Part USECO Part

MS 17156- 1=2510A-2.2

- 2=2501A-2.2

- 3=1320A*-2.2

- 4=2510B-2.2

- 5=2501B-2.2

- 6=1320B*-2.2

- 7=2510C-2.2

- 8=2501C-2.2

- 9=1320C*-2.2

-10=2510D-2.2

-11=2501D-2.2

-12=1320D*-2.2

MS 17157- 2=2509A-2.2

- 3=2502A*-2.2

- 5=2509B-2.2

- 6=2502B*-2.2

- 9=2509C-2.2

-10=2502C*-2.2

-13=2509D-2.2

-14=2502D*-2.2

MS 17158- 1=1305B-2.2

- 2=1306B-2.2

- 3=1305C*-2.2

- 4=1306C*-2.2

- 5=1307C*-2.2

- 6=1305D*-2.2

- 7=1306D*-2.2

- 8=1307D*-2.2

MS 39087- 1=1005-12

- 2=1005-14

- 3=1013-12

- 4=1013-14

- 5=1006-12

- 6=1006-14

NOTES: *Indicates slight dimensional variation from the MS part but considered interchangeable in usage.

FINISH (Standard) -2.2 Gold Plate, MIL-G-45204 Type II .000030 thick over silver plate per QQ-S-365 Type II Grade A, semi matte.

MS Terminals not listed above are available on special order.

Plating Specifications

PLATING DASH NO.	TYPE OF PLATING	THICKNESS OF PLATE	APPLICABLE SPECIFICATIONS if any
— 1	Copper strike Silver plate	0.0003/0.0005	QQ-S-365, Type III
— 2	Copper strike Silver plate Gold plate	0.0003/0.0005 0.000030/0.000050	QQ-S-365, Type III MIL-G-45204, Type II
— 2.2	Copper strike Silver plate Gold plate	0.0003/0.0005 0.000030/0.000050	QQ-S-365, Type II MIL-G-45204, Type II
— 3	Copper strike Gold plate	0.000050/0.000070	MIL-G-45204, Class 1, Type II
— 3.2	Copper strike Gold plate	0.000100/0.000150	MIL-G-45204, Class 2, Type II
— 3.3	Copper strike Gold plate	0.000200/0.000250	MIL-G-45204, Class 3, Type II
* — 4	Copper strike Solder plate	0.0005 Min.	MIL-F-14072 (M222, Type I)
— 5	Tin plate	0.0002/0.0004	MIL-T-10727, Type I
— 6	Hot tin dip	Approx. 0.0002	MIL-T-10727, Type II
— 7	Copper strike Gold flash	0.000010/0.000020	MIL-G-45204, Type II
— 8	Copper strike Nickel plate Gold plate	0.000050/0.000070 0.000030/0.000050	QQ-N-290, Class I MIL-G-45204, Type II
— 9	Copper strike Silver plate Gold flash	0.0003/0.0005 0.000010/0.000020	QQ-S-365, Type III MIL-G-45204, Type II
* — 10	Copper strike Gold plate	0.000030 Min.	MIL-G-45204, Type II
— 11	Copper strike Cadmium plate	0.0003/0.0005	QQ-P-416, Type I, Class 2
** — 11.2	Copper strike Cadmium plate	0.0003/0.0005	QQ-P-416, Type II, Class 2 (with iridescent yellow coating)
— 11.3	Copper strike Cadmium plate	0.0003/0.0005	QQ-P-416, Type II, Class 2 (with olive drab coating)
— 12	Copper strike Nickel plate	0.0003/0.0005	QQ-N-290, Class 1, Type VI _(KC)
— 13	Copper strike Nickel plate Chrome flash	0.0003/0.0005 0.000015/0.000030	QQ-N-290, Class 1, Type VI _(KC) QQ-C-320, Class 1, Type I
— 13.2	Copper strike Nickel plate Chromium flash	0.0003/0.0005 0.000015/0.000030	QQ-C-320, Class 1, Type II (Satin finish)
— 14	Black oxide	—	MIL-F-14072 (E311)
— 17	Passivate	—	MIL-F-14072 (E300)
— 17.2	Black passivate	—	MIL-C-13924 Class III
Anodized colors on aluminum			
— 20	Clear	MIL-A-8625, Type I	
— 21	Brown		
— 22	Red		
— 23	Orange		
— 24	Yellow		
— 25	Green		
— 26	Blue		
— 27	Violet		
— 28	Grey		
— 30	Black		
*Platings as specified in MIL-T-55155			
**Iridescent yellow will be supplied with Type II cadmium unless otherwise requested			